

OM nucleic - nucleic search, using sw model

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GenCore version 5.1.6

Run on: November 24, 2003, 21:47:55 ; Search time 935 Seconds
 (without alignments)
 10831.397 Million cell updates/sec

Title: US-10-001-857-42
 Perfect score: 3096
 Sequence: 1 ttccctcacgaaactccagg attttcttgacaaaaaaaaa 3096

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched:

2172232 seqs, 1635554964 residues

Total number of hits satisfying chosen parameters:

4344464

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications NA:*

1:	/cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2:	/cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3:	/cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4:	/cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5:	/cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6:	/cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
7:	/cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
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15:	/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
16:	/cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
17:	/cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	3096	100.0	3096 13 US-10-001-857-42	Sequence 42, APPL
2	2228.4	72.0	2610 12 US-09-814-353-20725	Sequence 20725, A
3	560.8	18.1	745 12 US-09-814-353-15927	Sequence 15927, A
4	509.4	16.5	610 12 US-09-814-353-16155	Sequence 16155, A
5	496.2	16.0	602 12 US-09-814-353-3218	Sequence 3218, AP
6	496.2	16.0	602 12 US-09-814-353-9543	Sequence 9543, AP
7	451.2	14.6	482 11 US-09-918-995-20914	Sequence 20914, A
8	434	14.0	434 12 US-09-814-353-3455	Sequence 3455, AP
9	434	14.0	434 12 US-09-814-353-9771	Sequence 9771, AP
10	350.8	11.3	398 10 US-09-983-965-210	Sequence 210, APP
11	268.6	8.7	501 10 US-09-783-590-5693	Sequence 5693, AP
12	182	5.9	489 12 US-10-027-632-323193	Sequence 323193, AP
13	182	5.9	489 13 US-10-027-632-323193	Sequence 323193, AP
14	140.4	4.5	151 13 US-10-001-857-41	Sequence 41, APP
15	87.8	2.8	815 13 US-10-001-857-111	Sequence 111, APP
16	60	1.9	12 US-09-808-675-1547	Sequence 1547, APP

ALIGNMENT

Sequence 1857, AP
 Sequence 31508, A
 Sequence 1481, AP
 Sequence 1403, AP
 Sequence 47, APPL
 Sequence 8, APPL
 Sequence 48, APPL
 Sequence 48, APPL
 Sequence 48, APPL
 Sequence 1483, AP
 Sequence 10, APPL
 Sequence 6, APPL
 Sequence 52, APPL
 Sequence 202, APP
 Sequence 202, APP
 Sequence 16, APPL
 Sequence 879, APP
 Sequence 1435, AP
 Sequence 4358, AP
 Sequence 4358, AP
 Sequence 33, APPL
 Sequence 29, APPL
 Sequence 45, APPL
 Sequence 45, APPL
 Sequence 50, APPL
 Sequence 50, APPL
 Sequence 50, APPL

17: /cgn2_6/ptodata/2/pubpna/us60_NEW_PUB.seq:*

; FILE REFERENCE: DEX-0273

; CURRENT APPLICATION NUMBER: US/10/001, 857

; CURRENT FILING DATE: 2001-11-20

; PRIOR APPLICATION NUMBER: 60/252, 054

; PRIOR FILING DATE: 2000-11-20

QY	181	GCGCAGACGGGGGCTCTGAGACTCCGGCTCCGCCTTCCGGAACGCCCACTA	240	QY	1261	AGAGTGAATTACTCGGTGTACTGACAGTGTATGCCTTACTAAGAAAGACC	1320
Db	181	GCCCAGACGGGGCTCTGAGACTCCGGCTCCGCCTTCCGGAACGCCCACTA	240	Db	1261	AGAGTGAATTACTCGGTGTACTGACAGTGTATGCCTTACTAAGAAAGACC	1320
QY	241	CCAGGACTCCGACAGAGGGTGAAGAAAAGATAACTTCGGTCRCCGATCGTCTCAATC	300	QY	1321	AGTGTGTTGAGCTCAAATGTGTTCAAGCAGCAGATCTCTTCTGCCATT	1380
Db	241	CCAGGACTCCGACAGAGGGTGAAGAAAAGATAACTTCGGTCRCCGATCGTCTCAATC	300	Db	1321	AGTGTGTTGAGCTCAAATGTGTTCAAGCAGCAGATCTCTTCTGCCATT	1380
QY	301	TGGGAGAGAGAGAGGGGGCCATGGCGAACGGGGTG3CGAGGGGGT360	360	QY	1381	CATAATTCATGCAATGGCATCCAGGCCAGAATGACTACAAGAGATCATCCA	1440
Db	301	TGGGAGAGAGAGGGGGCCATGGCGAACGGGGTG3CGAGGGGGT360	360	Db	1381	CATAATTCATGCAATGGCATCCAGGCCAGAATGACTACAAGAGATCATCCA	1440
QY	361	TGGGGGGGGAGCCGAGTCCCCGGGAGTAAGGGAGAGGGGGGGTGGCGAGGGGGT	420	QY	1441	ATTATGATGGTTTGAACCCCTTGTGAACCAAGAGCTACTTCCACCTACCTCCCTCGA	1500
Db	361	TGGGGGGGGAGCCGAGTCCCCGGGAGTAAGGGAGAGGGGGGGTGGCGAGGGGGT	420	Db	1441	ATTATGATGGTTTGAACCCCTTGTGAACCAAGAGCTACTTCCACCTACCTCCCTCGA	1500
QY	421	GCATACGGCATGCGTGCACGCTGCGTGGCTGGGACTTAAGGAGAGGGGGGGG	480	QY	1501	TATGCAAAATAATTAAAGGAAGGAATGGTGAACAGGACTATTGCAAGGATTAATAGATA	1560
Db	421	GCATACGGCATGCGTGCACGCTGCGTGGCTGGGACTTAAGGAGAGGGGGGG	480	Db	1441	ATTATGATGGTTTGAACCCCTTGTGAACCAAGAGCTACTTCCACCTACCTCCCTCGA	1500
QY	481	GCGGAGGGGGCTCGTGTGGCTGGGCTGGGACTGGAGCTGGTGGCTGAGACGGGGGG	540	QY	1561	ATAAAACGTCTGTGAGGTGTGAATTACAAATTACATGTGTTACAAAGGATCATCCA	1440
Db	481	GCGGAGGGGGCTCGTGTGGCTGGGCTGGGACTGGAGCTGGTGGCTGAGACGGGGGG	540	Db	1561	ATAAAACGTCTGTGAGGTGTGAATTACAAACTGGTCAAGGATCATGTTACAAACGATTC	1440
QY	541	GGAGAAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGATGAGCTCAGATGGGAG	600	QY	1621	TGTGAATTAGTGAACAGTCACCATGTTGTTCAAGATCTGTACAACCACTTC	1680
Db	541	GGAGAAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGATGAGCTCAGATGGGAG	600	Db	1621	TGTGAATTAGTGAACAGTCACCATGTTGTTCAAGATCTGTACAACCACTTC	1680
QY	601	CTCACTGAGCTGAGAAAATGGAGAAAGCAACTGGTGGACATTACCCAGAT	660	QY	1681	CTGGTGGATAACAAAGGTCTTGAGATTACAAATTACATGTGTTCAAGGATTAATAGATA	1560
Db	601	CTCACTGAGCTGAGAAAATGGAGAAAGCAACTGGTGGACATTACCCAGAT	660	Db	1681	CTGGTGGATAACAAAGGTCTTGAGATTACAAATTACATGTGTTCAAGGATTAATAGATA	1560
QY	661	TTGAAAGAAGCTGTGAGAAATGGAGAAAGCAACTGGTGGACATTACCCAGAT	720	QY	1741	CTTCGGCTTTGTGAGCTCCGGAGTCTCCGGTCTTCCCAAGTGTACTATATAATC	1800
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QY	721	CTTTTGAGCCATGTCGCTATGTAAGGATGATGGATCTCATGATAAGCTATTG	780	QY	1801	ACCAAGCTAAGGACTGTACTCCAGTCTTGTACTCACTACTGTTACTCTACTCT	1860
Db	721	CTTTTGAGCCATGTCGCTATGTAAGGATGATGGATCTCATGATAAGCTATTG	780	Db	1801	ACCAAGCTAAGGACTGTACTCCAGTCTTGTACTCACTACTGTTACTCTACTCT	1860
QY	781	GGAAACCAAGTTAATGAAAGTTCTCAATTGAGCTACAGATGATGCTGCGATG	840	QY	1861	TTTCGAGATCCATGGACATAACAGGCTCGACAGAGAGATAAGCTTGGTCATATCTTG	1920
Db	781	GGAAACCAAGTTAATGAAAGTTCTCAATTGAGCTACAGATGATGCTGCGATG	840	Db	1861	TTTCGAGATCCATGGACATAACAGGCTCGACAGAGAGATAAGCTTGGTCATATCTTG	1920
QY	841	AAAATTAAGATCTCACCTGCGTGAACGGGATTACTGGATAGGGATTATGGATAC	900	QY	1921	AGGAATTGCCCCACCTTGCGGGATGAGTTATGACATTTTAAATAGGAGAGGT	1980
Db	841	AAAATTAAGATCTCACCTGCGTGAACGGGATTACTGGATAGGGATTATGGATAC	900	Db	1921	AGGAATTGCCCCACCTTGCGGGATGAGTTATGACATTTTAAATAGGAGAGGT	1980
QY	901	TTGATAACGGGGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATT	960	QY	1981	TGATGCGCCGTTCACACCATGCTGTGAAACAGGAACCCAAAGGCAACATTGGCCTG	2040
Db	901	TTGATAACGGGGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATT	960	Db	1981	TGATGCGCCGTTCACACCATGCTGTGAAACAGGAACCCAAAGGCAACATTGGCCTG	2040
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Db	961	CATAATCCGACTTATAGAAGATCCTGCTATGAGGTCTGGGAATCTGAA	1020	Db	2041	TTAGGTACCTGGCTCTTACATACCTTCGCAATTGATACAGTACCTCTAGTGG	2100
QY	1021	ATCTGTGACATTGCAAGGAAAGATAATTAAGCTGCTTGTGAAAGAGGAAGTT	1080	QY	2101	CTTGTGAATTGCAACTCTACAGTATGACCGAGTACTTACATATATGGTATCTCTG	2160
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Db	1081	CAGTCAATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACAGC	1140	Db	2161	ATTCCTTACCGCATGGTGTGACATGACTGGCCGATGGCTCTCAATGGCAGA	2220
QY	1141	ATGCTAAAGATGTGGAGGATGACATGCAAAAGATAAGCTGAGTACTCGAAGTCGACAA	1200	QY	2221	GGAAAGGATAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAAACAAAGAAAAAA	2280
Db	1141	ATGCTAAAGATGTGGAGGATGACATGCAAAAGATAAGCTGAGTACTCGAAGTCGACAA	1200	Db	2221	GGAAAGGATAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAAACAAAGAAAAAA	2280
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Db	1201	GGAGAAGAGAGATCCAGAAGTGAACGACACCAAAAGCTGAGTATTCTGAGTAC	1260	Db	2281	GAAGTTGCCCATGGAGCCGAGAGATCACATGAGCCAAAGCATATGAGTGTG	2340
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Db 2341 TGGATGTTAACCATGGATTGACATGGACGGCAAAGTAGTAAACCGAAGTT 2400
 Qy 2401 TGAGCTGATAGTGACAAGTCGGTATGACACAGGTTGCTCCATTCAACAGTGT 2460
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 Qy 2461 GACCCCGCGCCAGTGCACACTACAGTTCAAGGAATGTCTGACCTCAAAATAG 2520
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 Db 2761 GAGACTGGGAGGTGCCATAAAGGGCAGAGTCTCTTCAGACCCAACCTCTAGAGG 2820
 Qy 2821 CACATCACCAGGCTCCACATCACGGGAAGTGGATGGTTCTGGTAACAACCTCATTA 2880
 Db 2821 CACATCACCAGGCTCCACATCACGGGAAGTGGATGGTTCTGGTAACAACCTCATTA 2880
 Qy 2881 TAGGAATACTTTAGTTGACAGCCTTATGACATGAATAAGCTGCTGTTAAG 2940
 Db 2881 TAGGAATACTTTAGTTGACAGCCTTATGACATGAATAAGCTGCTGTTAAG 2940
 Qy 2941 TGGTTTATTGTCATGGAGAAACTGGTTATTGATGATGAAACGTTAT 3000
 Db 2941 TGGTTTATTGTCATGGAGAAACTGGTTATTGATGATGAAACGTTAT 3000
 Qy 3001 GGTATTACAGATTAAATCACATTATTGATGTTGAAATAGTT 3060
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 Qy 3061 TTAAAGGTTAATAATTCTGACAAAAAAA 3096
 Db 3061 TTAAAGGTTAATAATTCTGACAAAAAAA 3096
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US-10-001-857-42.rnpb
 Sequence 20725, Application US/09814353
 Publication No. US20030165831A1
 GENERAL INFORMATION:
 APPLICANT: Lee, John
 APPLICANT: Thompson, Pamela
 APPLICANT: Lillie, James
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 FILE REFERENCE: MRI-006B
 CURRENT APPLICATION NUMBER: US/09/814,353
 CURRENT FILING DATE: 2001-03-21
 PRIOR APPLICATION NUMBER: US 60/191,031
 PRIOR FILING DATE: 2000-03-21
 PRIOR APPLICATION NUMBER: US 60/207,124
 PRIOR FILING DATE: 2000-05-25
 PRIOR APPLICATION NUMBER: US 60/211,940
 PRIOR FILING DATE: 2000-06-15
 PRIOR APPLICATION NUMBER: US 60/216,820

PRIOR FILING DATE: 2000-07-07
 PRIOR APPLICATION NUMBER: US 60/220,661
 PRIOR FILING DATE: 2000-07-25
 PRIOR APPLICATION NUMBER: US 60/257,672
 PRIOR FILING DATE: 2000-12-21
 NUMBER OF SEQ ID NOS: 22037
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 20725
 LENGTH: 2610
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: misc_feature
 LOCATION: 1, 2, 3, 4
 OTHER INFORMATION: n = A,T,C or G
 US-09-814-353-20725

Query Match

Best Local Similarity 72.0%; Score 2228.4; DB 12; Length 2610;
 Matches 2299; Conservative 0; Mismatches 21; Indels 28; Gaps 3;

Qy 426 CGCATGCGTGCACGCGCTGCGCTGGGCTGAGAGGGAGGGGGGGGGGGCGCGA 485
 Db 2610 CGCATGCGTGCACGCGCTGCGCTGGGCTGAGAGGGAGGGGGGGGGCGCGA 2551
 Qy 486 GGGGGCGTGTATTCCGGTCCGGAGCTGCGTGGGGGGGGGGGCGCGA 545
 Db 2550 GGGGGCGTGTATTCCGGTCCGGAGCTGCGTGGGGGGGGGGGGGACACGGGAGA 2491
 Qy 546 AGTAGGCATAATGGTTATGAAAGCTCTGTAGATGACGATTCAAGGATGGCTAG 605
 Db 2490 AGTAGGCATAATGGTTATGAAAGCTCTGTAGATGACGATTCAAGGATGGCTAG 2431
 Qy 606 TATGCCAGAAAAATGGAGAAACTACAACCTGGGGACATTACCAAGATTGTA 665
 Db 2430 TATGCCAGAAAAATGGAGAAACTACAACCTGGGGACATTACCAAGATTGTA 2371
 Qy 666 AGAGCTGTGAGAAATTAAAGTGGAGAAACTGGGGACATTACCAAGATTGTA 725
 Db 2370 AGAGCTGTGAGAAATTAAAGTGGGGACATTACCAAGATTGTA 2311
 Qy 726 TGAAGCCATGTCTGCTTATTGAAATGGATGCCAGATGGATGCTGGCATGATGGAA 785
 Db 2310 TGAAGCCATGTCTGCTTATTGAAATGGATGCCAGATGGATGCTGGCATGATGGAA 2251
 Qy 786 CCAAGTTAATCGAAAGTTCTCAATTGAAAGCTATCAAGGATGGCACTATTAAAT 845
 Db 2250 CCAAGTTAATCGAAAGTTCTCAATTGAAAGCTATCAAGGATGGCACTATTAAAT 2191
 Qy 846 TAAGATCTCACCTGCCTGAACTGATAGGGATTATGGATACATGTTTGCTGTTGAT 905
 Db 2190 TAAGATCTCACCTGCCTGAACTGATAGGGATTATGGATACATGTTTGCTGTTGAT 2131
 Qy 906 AACGTGGTTAGAAGGCCATCTGCAAGACAGTATTACGTGCTTACATTCAA 965
 Db 2130 AACGTGGTTAGAAGGCCATCTGCAAGACAGTATTACGTGCTTACATTCAA 2071
 Qy 966 TCCAGACTTATGAGAAGTCTGCTTATGAAAGGCTTGTGTTTGAGAGGATTTGCACTG 1025
 Db 2070 TCCAGACTTATGAGAAGTCTGCTTATGAAAGGCTTGTGTTTGAGAGGATTTGCACTG 1085
 Qy 1026 TGACATTGCAAGGGAAAGTAAAGCTGCTTGTGTTTGAGAGGATTTGCACTG 1951
 Db 2010 TGACATTGCAAGGGAAAGTAAAGCTGCTTGTGTTTGAGAGGATTTGCACTG 1951
 Qy 1086 ATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACGGCATGCT 1145
 Db 1950 AATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACGGCATGCT 1891
 Qy 1146 AAAAGATGTGGAGGATGACATGCAAGAGAGTAAGAGTACTCGAAGTCGACAAGGAGA 1205
 Db 1890 AAAAGATGTGGAGGATGACATGCAAGAGAGTAAGAGTACTCGAAGTCGACAAGGAGA 1831

QY	1206	AGAAAGAGATCCAGAAGTTGAACCTAACATGTTAGCAGTTCAGCAGGT	1265
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QY	1266	GAATTACTCGTGTACTGACAGTGCTATAGCCTTACTAAGAAGAGACCGTGC	1325
Db	1770	GAATTACTCGTGTACTGACAGTGCTATAGCCTTACTAAGAAGAGACCGTGC	1711
QY	1326	TGTTGAGAAGCTCAAATTGATGGTCAGCAGGAGCTTACTAAGAAGAGACCGTGC	1385
Db	1710	TGTTGAGAAGCTCAAATTGATGGTCAGCAGGAGCTTACTAAGAAGAGACCGTGC	1651
QY	1386	TTCATGTCATCATGGCATCCAGGCCAGAACCTTCTGCCATTCAA	1385
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QY	1446	GATGGGTTTGAACCCCTTGTGAACAGAGGCTACTACAAAGGAGATCATCCATT	1445
Db	1590	GATGGGTTTGAACCCCTTGTGAACAGAGGCTACTACAAAGGAGATCATCCATT	1531
QY	1506	AAAAATAATTAAAGGAGAACCTACACCTTCCACCTACCTTCCCTCGATATGC	1505
Db	1530	AAAAATAATTAAAGGAGAACCTACACCTTCCACCTACCTTCCCTCGATATGC	1471
QY	1566	AACTGTCGTGAGGTTGGAATTAAACAATTACATGTCTGGATTTCGATATGC	1625
Db	1470	AACTGTCGTGAGGTTGGAATTAAACAATTACATGTCTGGATTTCGATATGC	1411
QY	1626	ATTAGTGACAGTCACCATGTTCTCAAGATCTCTGTTACAAACCACTTCTGTA	1685
Db	1410	ATTAGTGACAGTCACCATGTTCTCAAGATCTCTGTTACAAACCACTTCTGTA	1351
QY	1686	GGATAACAAAGGTCTTGAACACTCATCTCATGCAAGACATGTAAGGAGACTTCC	1745
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QY	1746	GTCTTTGTCAGATCCTCCGAGTGTCCCCAAGTGTACCTATAATACTCACAG	1805
Db	1290	GTCTTTGTCAG--TCCTCCGGTCTTCCCCAAGTGTACCTATAATACTCACAG	1233
QY	1806	GCTAAGACTGTTACTGACTCCTTGTACTCACTGTTCTGGCCATTCTGTTAGCTT	1865
Db	1232	GCTAAGACTGTTACTGACTCCTTGTACTCACTGTTCTGGCCATTCTGTTAGCTT	1173
QY	1866	CAGATCCATGGACATAACAGGGCTGGAGAGATAAGCTTGTCAATATCTTGACGA	1925
Db	1172	CAGATCCATGGACATAACAGGGCTGGAGAGATAAGCTTGTCAATATCTTGACGA	1113
QY	1926	TTGCCACCTTGCAGGATGAGTTATGACATTAAATAGGCAGAGAAGGTGATG	1985
Db	1112	TTGCCACCTTGCAGGATGAGTTATGACATTAAATAGGCAGAGAAGGTGATG	1076
QY	1986	CAGCCCTCACCATGCTGTGAACAGGAAACCCAAAGGCAACATTGGCCTGTTAG	2045
Db	1075	CAGCCCTCACCATGCTGTGAACAGGAAACCCAAAGGCAACATTGGCCTGTTAG	1016
QY	2046	GTACCTGGTCTTACCATACCTTCGACATATGATACAGTACCTCTAAGGGCTTG	2105
Db	1015	GTACCTGGTCTTACCATACCTTCGACATATGATACAGTACCTCTAAGGGCTTG	956
QY	2106	AATTGAACTTACAGTATGCACGAGTACTTACATATATGGTATCTCTCTGAATT	2165
Db	955	AATTGAACTTACAGTATGCACGAGTACTTACATATATGGTATCTCTCTGAATT	896
QY	2166	TTACGCATGGTGTGACATTGAGTCGGCGATGGCTCTCAATGGCAGAGGAA	2225
Db	895	TTACGCATGGTGTGACATTGAGTCGGCGATGGCTCTCAATGGCAGAGGAA	836
QY	2226	GGATAATGGAGAGCAGCAGAACATTGAGTCGGCGATGGCTCTCAATGGCAGAGGAA	2285
Db	835	GGATAATGGAGAGCAGCAGAACATTGAGTCGGCGATGGCTCTCAATGGCAGAGGAA	776
QY	2286	TTGCCCATGGCGAGAGATCACCATGAGCAATCACCATGTCAGCAGGT	2345
Db	775	TTGCCCATGGCGAGAGATCACCATGTCAGCAGGT	716
QY	2346	TGTTAAACCATTGTCAGATTGACATGGACGGCAAGTACGTAACCGAAGTTGAGC	2405
Db	715	TGTTAAACCATTGTCAGATTGACATGGACGGCAAGTACGTAACCGAAGTTGAGC	656
QY	2406	TGATAGTGAACAGTTCGGTATGAAACACAGGTTGCTCCATTCAACAGTGTGATGACC	2465
Db	655	TGATAGTGAACAGTTCGGTATGAAACACAGGTTGCTCCATTCAACAGTGTGATGACC	596
QY	2466	CGCCGCCAGTGCACACTTACAGTCAAGGAATGTCGACCTCAATAATAGCCTC	2525
Db	595	CGCCGCCAGTGCACACTTACAGTCAAGGAATGTCGACCTCAATAATAGCCTC	536
QY	2526	CTCCTCACTCTCTGAACCTACAGTGTATGTCGGCAGCTAGTAAGCACTTCAACAGGAAATG	2585
Db	535	CTCCTCACTCTCTGAACCTACAGTGTATGTCGGCAGCTAGTAAGCACTTCAACAGGAAATG	476
QY	2586	TATGGAAATAATTCTAACCCGGACCATGAGGTTAAGAATTAAAGGTGCCAAC	2645
Db	475	TATGGAAATAATTCTAACCCGGACCATGAGGTTAAGAATTAAAGGTGCCAAC	416
QY	2646	CCAACTTGGGTATGAAAGTTGGCAGGAGGTTAACAGGAAATCTGGATTTCCTC	2705
Db	415	CCAACTTGGGTATGAAAGTTGGCAGGAGGTTAACAGGAAATCTGGATTTCCTC	356
QY	2706	CTGAATTGATTCTCTGCTCTAAATATTTCCTGTTGAAACTTGTGAGAGAC	2765
Db	355	CTGAATTGATTCTCTGCTCTAAATATTTCCTGTTGAAACTTGTGAGAGAC	299
QY	2766	TGGGAGG 2773	
Db	298	GGAGGTGG 291	
RESULT 3			
US-09-814-353-15927/C			
; Sequence 15927, Application US/09814353			
; Publication No. US20030165831A1			
; GENERAL INFORMATION:			
; APPLICANT: Lee, John			
; APPLICANT: Thompson, Pamela			
; APPLICANT: Lillie, James			
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR			
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND			
; FILE REFERENCE: THERAPY OF OVARIAN CANCER			
; CURRENT APPLICATION NUMBER: MRI-006B			
; CURRENT FILING DATE: 2001-03-21			
; PRIOR APPLICATION NUMBER: US 09/814,353			
; PRIOR FILING DATE: 2000-03-21			
; PRIOR APPLICATION NUMBER: US 60/191,031			
; PRIOR FILING DATE: 2000-05-25			
; PRIOR APPLICATION NUMBER: US 60/211,940			
; PRIOR FILING DATE: 2000-06-15			
; PRIOR APPLICATION NUMBER: US 60/216,820			
; PRIOR FILING DATE: 2000-07-07			
; PRIOR APPLICATION NUMBER: US 60/220,661			
; PRIOR FILING DATE: 2000-07-25			
; PRIOR APPLICATION NUMBER: US 60/257,672			
; NUMBER OF SEQ ID NOS: 22037			
; SOFTWARE: FastSEQ for Windows Version 4.0			
; SEQ ID NO: 15927			
; LENGTH: 745			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE: misc_feature			
; LOCATION: 571			
; OTHER INFORMATION: n = A,T,C or G			

Query Match 18.1%; Score 560.8; DB 12; Length 745;
 Best Local Similarity 94.8%; Pred. No. 2.2e-141; Matches 621; Conservative 0; Mismatches 8; Indels 26; Gaps 3;
 Matches 621; Conservative 0; Mismatches 8; Indels 26; Gaps 3;

QY 1399 GGCATCCAGGCCAGGATGATACTACAAAGGAGATCATTCAATTATGATGGTTTGAA 1458
 Db 739 GGCATCCAGGCCAGGATGATACTACAAAGGAGATCATTCAATTATGATGGTTTGAA 680

QY 1459 CCCCTGTGAAACCAGAGGCTACTTCCACCTCACCTCCCTCGATATGCAAATAA 1518
 Db 679 CCCCTGTGAAACCAGAGGCTACTTCCACCTCACCTCCCTCGATATGCAAATAA 620

QY 1519 AGGAAGAAATGGTGAACATTGTGAAAGATAATAGATAAGATAAAACTGTCTGTGAG 1578
 Db 619 AGGAAGAAATGGTGAACATTGTGAAAGATAATAGATAAGATAAAACTGTCTGTGAG 560

QY 1579 GTTGTGAATTACAATTACATTACATTGTATCTGGAA-TTTTCTGTGAATTAGTAACA 1637
 Db 559 GTTGTGAATTACAATTACATTACATTGTATCTGGATTTCTGTGAATTAGTAACA 500

QY 1638 GTCACCATGTTCTTCAGATCTCTGTACAACCACTTCTGGTGTAAACAAA 1697
 Db 499 GTCACCATGTTCTTCAGATCTCTGTACAACCACTTCTGGTGTAAACAAA 440

QY 1698 GGCTCTTGGAACTCATCTCATGGAGACATGGTGAAGAGATGCACTCGGTCTTGTCAG 1817
 Db 439 GGCTTTGGAACTCATCTCATGGAGACATGGTGTAAAGATGCACTCGGTCTTGTCAG 380

QY 1758 ATCCTCCGAGTGTCTCCCAGTGTACTCATATAATCACAGGCTAAGGACTGT 1817
 Db 379 TCTCTCCG--GTGCTTCCCCAAGTGTACTCATATAATCACAGGCTAAGGACTGT 322

QY 1818 ATCGACTCTTGTACTCACTGTTCTGTACTCATATAATCACAGGCTAAGGACTGT 1877
 Db 321 ATCGACTCTTGTACTCACTGTTCTGTACTCATATAATCACAGGCTAAGGACTGT 262

QY 1878 CATAACAGGGCTCGACAGAGAGATAAGCTTGTCACTATCTTGAGGAATTGCCACCTG 1937
 Db 261 CATAACAGGGCTCGACAGAGAGATAAGCTTGTCACTATCTTGAGGAATTGCCACCTG 202

QY 1938 CAGGATGAGTTATGACATTATAATAGGCAGAGAGGTGTGATCAGCCCTTCACA 1997
 Db 201 CAGGATG-----AGCAGAGAAGGTGTGATCAGCCCTTCACA 165

QY 1998 CCGATGCTGTGAAACAGGAACCCAAAGGCAACATTGGCTGTAGGTACCTG 2052
 Db 164 CGATGCTGTGAAACAGGAACCCAAAGGCAACATTGGCTGTAGGTACCTG 110

RESULT 4
 US-09-814-353-16155
 ; Sequence 16155, Application US/09814353
 ; Publication No. US20030165831A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lee, John
 ; APPLICANT: Thompson, Pamela
 ; APPLICANT: Lillie, James
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 ; CURRENT APPLICATION NUMBER: US/09/814,353
 ; CURRENT FILING DATE: 2001-03-21
 ; PRIOR APPLICATION NUMBER: US 60/191,031
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: US 60/207,124
 ; PRIOR FILING DATE: 2000-05-25
 ; PRIOR APPLICATION NUMBER: US 60/211,940
 ; PRIOR FILING DATE: 2000-06-15
 ; PRIOR APPLICATION NUMBER: US 60/216,820
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR APPLICATION NUMBER: US 60/220,661

RESULT 5
 US-09-814-353-3218/c
 ; Sequence 3218, Application US/09814353
 ; Publication No. US20030165831A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lee, John
 ; APPLICANT: Thompson, Pamela
 ; APPLICANT: Lillie, James
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 ; CURRENT APPLICATION NUMBER: US/09/814,353
 ; CURRENT FILING DATE: 2001-03-21
 ; PRIOR APPLICATION NUMBER: US 60/191,031
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: US 60/207,124
 ; PRIOR FILING DATE: 2000-05-25
 ; PRIOR APPLICATION NUMBER: US 60/211,940
 ; PRIOR FILING DATE: 2000-06-15
 ; PRIOR APPLICATION NUMBER: US 60/216,820

; PRIORITY INFORMATION:
 ; PRIORITY APPLICATION NUMBER: US 60/257,672
 ; PRIORITY FILING DATE: 2000-12-21
 ; NUMBER OF SEQ ID NOS: 22037
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 16155
 ; LENGTH: 610
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-814-353-16155

Query Match 16.5%; Score 509.4; DB 12; Length 610;
 Best Local Similarity 99.8%; Pred. No. 1.8e-127; Matches 510; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1184 GTACTCGAAGTCGACAAGGAGAGAGATCAGAAGTGAACAGACACCAAT 1243
 Db 100 GTACTCGAAGTCGACAAGGAGAGAGATCAGAAGTGAACAGACACCAAT 159

QY 1244 GTTAGCAGTATTCAAGCAGACTGAAATTACTCGTGTGTACTGACAGTGTCTATAGCT 1303
 Db 160 GTTAGCAGTATTCAAGCAGACTGAAATTACTCGTGTGTACTGACAGTGTCTATAGCT 219

QY 1304 TTACTAAGAAGAGACAGTGTGAGAGCTCAAATATGATGGTCAAGGAGCAG 1363
 Db 280 TTACTAAGAAGAGACAGTGTGAGAGCTCAAATATGATGGTCAAGGAGCAG 339

QY 1424 CAAAAGGAGATCATCCAATTATGATGGTTTGACCCCTGTGAAACCAAGAGGCTACTTC 1483
 Db 340 CAAAAGGAGATCATCCAATTATGATGGTTTGACCCCTGTGAAACCAAGAGGCTACTTC 399

QY 1484 CACTTACCTCCCTCGATATGCATAATTGATGGTTTGACCCCTGTGAAACCAAGAGGCTACTTC 1543
 Db 400 CACTTACCTCCCTCGATATGCATAATTGATGGTTTGACCCCTGTGAAACCAAGAGGCTACTTC 459

QY 1544 CAAGATAATAGATAGATAAAACTGTCGTGAGGTGTGAATTAAAGGAGAAATGGTGAACATT 1603
 Db 460 CAAGATAATAGATAGATAAAACTGTCGTGAGGTGTGAATTAAAGGAGAAATGGTGAACATT 519

QY 1604 GTATCCTGGATTTCTGTGAATTAGTGTGAGGTGTGAATTAAAGGAGAAATGGTGAACATT 1663
 Db 520 GTATCCTGGATTTCTGTGAATTAGTGTGAGGTGTGAATTAAAGGAGAAATGGTGAACATT 579

QY 1664 TGTTACAAACCACTTCCCTGGGATAACAA 1694
 Db 580 TGTTACAAACCACTTCCCTGGGATAACAA 610

PRIOR FILING DATE: 2000-07-07
 PRIOR APPLICATION NUMBER: US 60/220,661
 PRIOR FILING DATE: 2000-07-25
 PRIOR APPLICATION NUMBER: US 60/257,672
 PRIOR FILING DATE: 2000-12-21
 NUMBER OF SEQ ID NOS: 22037
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 3218
 LENGTH: 602
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 561, 590
 OTHER INFORMATION: n = A,T,C or G
 ;US-09-814-353-3218

Query Match

Best Local Similarity 16.0%; Score 496.2; DB 12; Length 602;
 Matches 568; Conservative 0; Mismatches 10; Indels 27; Gaps 4;

QY 1450 GGTTTGAAACCCCTGTGAACCAAGAGGCTACTTCCACCTACCTCCCTCGATATGC-AAA 1508
 Db 602 GGTTTGAAACCCNTGTGAACCAAGAGGCTACTTCCACCTACNTCCCTCGATATGCAAA 543

QY 1509 AATAATTAAAGGAAGAAATGGTGAECTATTTGCAAGATAATAGATAAGATAAAAC 1568
 Db 542 AATAATTAAAGGAAGAAATGGTGAECTATTTGCAAGATAATAGATAAGATAAAACC 483

QY 1569 TGTCTGTGAGGGTGTGAATTACAATTACATGTATCCTGGA-TTTTTCTGTGAAT 1627
 Db 482 TGTCTGTGAGGGTGTGAATTACAATTACATGTATCCTGGATTTCCTGTGAAT 423

QY 1628 TTAGTGAACAGTCACCATGTTCTTCAGATCTCTGTACAAACCACTTCTGGTGG 1687
 Db 422 TTAGTGAACAGTCACCATGTTCTTCAGATCTCTGTACAAACCACTTCTGGTGG 363

QY 1688 ATACAAAGGTCTTGGAACTCATCTCATGAAAGACATGGTAAGATGACTTCGGT 1747
 Db 362 ATACAAAGGTCTTGGAACTCATCTCATACAGACATGGTAAGATGACTTCGGT 303

QY 1748 CTTTGTGAGATCCTCCGAGTGTCTCCCCAAGTGTACCTATAATAACCGAGG 1807
 Db 302 CTTTGTGAGATCCTCCGAGTGTCTCCCCAAGTGTACCTATAATAACCGAGG 245

QY 1808 TAAGGACTGTATCGACTCCTTGTACTCACTGTGTRGCCATTCTGTAGCTTATCA 1867
 Db 244 TAAGGACTGTATCGACTCCTTGTACTCACTGTGTRGCCATTCTGTAGCTTATCA 185

QY 1868 GATCCATGGACATAACAGGGCTCGACAGAGAGATAAGCTGGTCAATTCAGATCTGTAGCTTATCA 1927
 Db 184 GATCCATGGACATAACAGGGCTCGACAGAGAGATAAGCTGGTCAATTCAGATCTGTAGCTTATCA 125

QY 1928 TGCCACCTTCGAGGATGAGTTATGACATTATTTATAGGCAGAGAGGTGATGCA 1987
 Db 124 TGCCACCTTCGAGGATGAGTTATGACATTATTTATAGGCAGAGAGGTGATGCA 88

QY 1988 GCGCTTCACACCATGCTGTGAACAGGAACCCAAAGGCAACATTGGCCTTTAGGT 2047
 Db 87 GCGCTTCACACCATGCTGTGAACAGGAACCCAAAGGCAACATTGGCCTTTAGGT 28

QY 2048 ACCTG 2052
 Db 27 ACCTG 23

RESULT 6

US-09-814-353-9543/C

Sequence 9543, Application US/09814353

Publication No. US20030165831A1

APPLICANT: Lillie, James
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 FILE REFERENCE: MRI-006B
 CURRENT APPLICATION NUMBER: US/09/814, 353
 CURRENT FILING DATE: 2001-03-21
 PRIOR APPLICATION NUMBER: US 60/191, 031
 PRIOR FILING DATE: 2000-06-15
 PRIOR APPLICATION NUMBER: US 60/216, 820
 PRIOR FILING DATE: 2000-07-07
 PRIOR APPLICATION NUMBER: US 60/220, 661
 PRIOR FILING DATE: 2000-07-25
 PRIOR APPLICATION NUMBER: US 60/257, 672
 PRIOR FILING DATE: 2000-12-21
 NUMBER OF SEQ ID NOS: 22037
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 9543
 LENGTH: 602
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 561, 590
 OTHER INFORMATION: n = A,T,C or G
 ;US-09-814-353-9543

Query Match

Best Local Similarity 16.0%; Score 496.2; DB 12; Length 602;
 Matches 568; Conservative 0; Mismatches 10; Indels 27; Gaps 4;

QY 1450 GGTTTGAAACCCNTGTGAACCAAGAGGCTACTTCCACCTACNTCCCTCGATATGC-AAA 1508
 Db 602 GGTTTGAAACCCNTGTGAACCAAGAGGCTACTTCCACCTACNTCCCTCGATATGCAAA 543

QY 1509 AATAATTAAAGGAAGAAATGGTGAECTATTTGCAAGATAATAGATAAGATAAAAC 1568
 Db 542 AATAATTAAAGGAAGAAATGGTGAECTATTTGCAAGATAATAGATAAGATAAAACC 483

QY 1569 TGTCTGTGAGGGTGTGAATTACAATTACATGTATCCTGGA-TTTTTCTGTGAAT 1627
 Db 482 TGTCTGTGAGGGTGTGAATTACAATTACATGTATCCTGGATTTCCTGTGAAT 423

QY 1628 TTAGTGAACAGTCACCATGTTCTTCAGATCTCTGTACAAACCACTTCTGGTGG 1687
 Db 422 TTAGTGAACAGTCACCATGTTCTTCAGATCTCTGTACAAACCACTTCTGGTGG 363

QY 1688 ATACAAAGGTCTTGGAACTCATCTCATGAAAGACATGGTAAGATGACTTCGGT 1747
 Db 362 ATACAAAGGTCTTGGAACTCATCTCATACAGACATGGTAAGATGACTTCGGT 303

QY 1748 CTTTGTGAGATCCTCCGAGTGTCTCCCCAAGTGTACCTATAATAACCGAGG 1807
 Db 302 CTTTGTGAGATCCTCCGAGTGTCTCCCCAAGTGTACCTATAATAACCGAGG 245

QY 1808 TAAGGACTGTATCGACTCCTTGTACTCACTGTGTRGCCATTCTGTAGCTTATCA 1867
 Db 244 TAAGGACTGTATCGACTCCTTGTACTCACTGTGTRGCCATTCTGTAGCTTATCA 185

QY 1868 GATCCATGGACATAACAGGGCTCGACAGAGAGATAAGCTGGTCAATTCAGATCTGTAGCTTATCA 1927
 Db 184 GATCCATGGACATAACAGGGCTCGACAGAGAGATAAGCTGGTCAATTCAGATCTGTAGCTTATCA 125

QY 1928 TGCCACCTTCGAGGATGAGTTATGACATTATTTATAGGCAGAGAGGTGATGCA 1987
 Db 124 TGCCACCTTCGAGGATGAGTTATGACATTATTTATAGGCAGAGAGGTGATGCA 88

QY 1988 GCGCTTCACACCATGCTGTGAACAGGAACCCAAAGGCAACATTGGCCTTTAGGT 2047
 Db 87 GCGCTTCACACCATGCTGTGAACAGGAACCCAAAGGCAACATTGGCCTTTAGGT 28

QY 2048 ACCTG 2052
 Db 27 ACCTG 23

RESULT 6

US-09-814-353-9543/C

Sequence 9543, Application US/09814353

Publication No. US20030165831A1

APPLICANT: Lillie, James
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 FILE REFERENCE: MRI-006B
 CURRENT APPLICATION NUMBER: US/09/814, 353
 CURRENT FILING DATE: 2001-03-21
 PRIOR APPLICATION NUMBER: US 60/191, 031
 PRIOR FILING DATE: 2000-06-15
 PRIOR APPLICATION NUMBER: US 60/216, 820
 PRIOR FILING DATE: 2000-07-07
 PRIOR APPLICATION NUMBER: US 60/220, 661
 PRIOR FILING DATE: 2000-07-25
 PRIOR APPLICATION NUMBER: US 60/257, 672
 PRIOR FILING DATE: 2000-12-21
 NUMBER OF SEQ ID NOS: 22037
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 9543
 LENGTH: 602
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 561, 590
 OTHER INFORMATION: n = A,T,C or G
 ;US-09-814-353-9543

RESULT 7

US-09-918-995-20914

; Sequence 20914, Application US/09918995
; Publication No. US20030073623A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc.

; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FROM VARIOUS cDNA LIBRARIES

; FILE REFERENCE: 20411-756

; CURRENT APPLICATION NUMBER: US/09/918, 995

; CURRENT FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: US/09/235, 076

; PRIOR FILING DATE: 1999-01-20

; NUMBER OF SEQ ID NOS: 38054

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 20914

; LENGTH: 482

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)..(482)

; OTHER INFORMATION: n = A,T,C or G

; US-09-918-995-20914

Query Match 14.6%; Score 451.2; DB 11; Length 482;
Best Local Similarity 99.3%; Pred. No. 9.9e-112;
Matches 453; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 491 CGTCGTTATTCCCGTGTCCGGACAGTGCGGGGGGGTGAACCGGGAGACTAG 550
Db 26 CGAGCTTATTCCCGTGTCCGGACAGTGCGGTGCCGGGGTGAACCGGGAGATAG 85

QY 551 GCATAATGGTTATGAAAGCTCTGTAGATGACGATCAGGATGGAGCTCAGTATGC 610
Db 86 GCATAATGGTTATGAAAGCTCTGTAGATGACGATCAGGATGGAGCTCAGTATGC 145

QY 611 CAGAAAAATGGAGAAAGCAATACAACCTGGGACATTACCAAGATTTGAGAAG 670
Db 146 CAGAAAAATGGAGAAAGCAATACAACCTGGGACATTACCAAGATTTGAGAAG 205

QY 671 CTTGTCGAGAATTAAGTTGGAGAACTACTTCATGATAAGCTATTGGCTTTGAGAAG 730
Db 206 CTTGTCGAGAATTAAGTTGGAGAACTACTTCATGATAAGCTATTGGCTTTGAGAAG 265

QY 731 CCATGTCGCTATTGAATGATGGATCCCAGATGGCATGTTGAAACCCCTTGAGAAG 790
Db 266 CCATGTCGCTATTGAATGATGGATCCAGATGGATGCTGGCATGTTGAAACCAAG 325

QY 791 TTAATCGAAAGTTCTCAATTGAAACAGCTATCAAGGATGGCACTATTAAATTAAAG 850
Db 326 TTAATCGAAAGTTCTCAATTGAAACAGCTATCAAGGATGGCACTATTAAATTAAAG 385

QY 851 ATCTCACCTTGCGCTGAACTGATAGGATTATGGATACATGTTTGCTGTTGATAACGT 910
Db 386 ATCTCACCTTGCGCTGAACTGATAGGATTATGGATACATGTTTGCTGTTGATAACGT 445

QY 911 GGTTAGAAGGCCATTCACTGGCACAGACAGTTAAG 946
Db 446 GGTTAGAAGGCCATTCACTGGCACAGACAGTTAAG 481

; GENERAL INFORMATION:

; APPLICANT: Lee, John

; APPLICANT: Thompson, Pamela

; APPLICANT: Lillie, James

; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF OVARIAN CANCER

; FILE REFERENCE: MRI-006B

; CURRENT APPLICATION NUMBER: US/09/814,353

; CURRENT FILING DATE: 2001-03-21

; PRIOR APPLICATION NUMBER: US 60/191,031

; PRIOR FILING DATE: 2000-06-15

; PRIOR APPLICATION NUMBER: US 60/216,820

; PRIOR FILING DATE: 2000-07-07

; PRIOR APPLICATION NUMBER: US 60/220,661

; PRIOR FILING DATE: 2000-07-25

; PRIOR APPLICATION NUMBER: US 60/257,672

; PRIOR FILING DATE: 2000-12-21

; NUMBER OF SEQ ID NOS: 22037

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 3455

; LENGTH: 434

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-814-353-3455

Query Match 14.0%; Score 434; DB 12; Length 434;
Best Local Similarity 100.0%; Pred. No. 4.3e-107;
Matches 434; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1186 ACTCGAAGTCGACAAGGAGAACAGATCCAGAAGTTGAACACCAAATGT 1245
Db 1 ACTCGAAGTCGACAAGGAGAACAGATCCAGAAGTTGAACACCAAATGT 60

QY 1246 TTGCACTATTTCAGCAGACTGAAATTACTCGTGTGTACTGACAGTGCTTATAGCCTT 1305
Db 61 TTGCACTATTTCAGCAGACTGAAATTACTCGTGTGTACTGACAGTGCTTATAGCCTT 120

QY 1306 ACTAAGAAGACCAAGTGTGCAGAAGCTCAAATGTGATCATGGCATCCAGGCCAGAT 1365
Db 121 ACTAAGAAGACCAAGTGTGCAGAAGCTCAAATGTGATCATGGCATCCAGGCCAGAT 180

QY 1366 CTCTCTCTGCCATTCTATAATTCTCATGTCATCATGGCATCCAGGCCAGATGATACTACA 1425
Db 181 CTCTCTCTGCCATTCTATAATTCTCATGTCATCATGGCATCCAGGCCAGATGATACTACA 240

QY 1426 AAAGGAGATCATCCAATTATGATGGTTTGAGAACCCCTTGAGAACCCTTGAGAACCAGAGGCTACTTCCA 1485
Db 241 AAAGGAGATCATCCAATTATGATGGTTTGAGAACCCTTGAGAACCAGAGGCTACTTCCA 300

QY 1486 CCTACCTCCCTCGATATGCAAAATAATTAAAGGAAGAAATGGGAACCTATTGCA 1545
Db 301 CCTACCTCCCTCGATATGCAAAATAATTAAAGGAAGAAATGGGAACCTATTGCA 360

QY 1546 AGATTAATAGATAATAAAACTGTCGTGAGGTTGTGAATTAAACAATTACATTG 1605
Db 361 AGATTAATAGATAATAAAACTGTCGTGAGGTTGTGAATTAAACAATTACATTG 420

QY 1606 ATCTGGATTTT 1619
Db 421 ATCTGGATTTT 434

; APPLICANT: Thompson, Pamela
 ; APPLICANT: Lillie, James
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
 ; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 ; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
 ; FILE REFERENCE: MRI-006B
 ; CURRENT APPLICATION NUMBER: US/09/814, 353
 ; CURRENT FILING DATE: 2001-03-21
 ; PRIOR APPLICATION NUMBER: US 60/191, 031
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: US 60/207, 124
 ; PRIOR FILING DATE: 2000-05-25
 ; PRIOR APPLICATION NUMBER: US 60/211, 940
 ; PRIOR FILING DATE: 2000-06-15
 ; PRIOR APPLICATION NUMBER: US 60/216, 820
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR APPLICATION NUMBER: US 60/220, 661
 ; PRIOR FILING DATE: 2000-07-25
 ; PRIOR APPLICATION NUMBER: US 60/257, 672
 ; PRIOR FILING DATE: 2000-12-21
 ; NUMBER OF SEQ ID NOS: 22037
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 971
 ; LENGTH: 434
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-814-353-971

Query Match

Best Local Similarity

Matches

QY

Db

TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIORITY APPLICATION NUMBER: US 60/218,006
PRIORITY FILING DATE: 2000-07-12
PRIORITY APPLICATION NUMBER: US 60/198,676
PRIORITY FILING DATE: 2000-04-20
PRIORITY APPLICATION NUMBER: US 60/193,483
PRIORITY FILING DATE: 2000-03-29
PRIORITY APPLICATION NUMBER: US 60/185,218
PRIORITY FILING DATE: 2000-02-24
PRIORITY APPLICATION NUMBER: US 60/167,363
PRIORITY FILING DATE: 1999-11-23
PRIORITY APPLICATION NUMBER: US 60/156,358
PRIORITY FILING DATE: 1999-09-28
PRIORITY APPLICATION NUMBER: US 60/146,002
PRIORITY FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 323193
; LENGTH: 489
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-323193

Query Match 5.9%; Score 182; DB 13; Length 489;
Best Local Similarity 100.0%; Pred. No. 1.6e-38; Mismatches 0; Indels 0; Gaps 0;
Matches 182; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1431 AGATCATCCAATTATGATGGGTTTGAAACCCCTGTGACCGAGGCTACTTCACCTAC 1490
Db 401 AGATCATCCAATTATGATGGGTTTGAAACCCCTGTGACCGAGGCTACTTCACCTAC 342

QY 1491 CTTCCCTCGATATGCAAAATAATTAAAGGGAAGAACATTGGTGAACATTGCAAGATT 1550
Db 341 CTTCCCTCGATATGCAAAATAATTAAAGGGAAGAACATTGGTGAACATTGCAAGATT 282

QY 1551 ATAGATAGATAAAACTGTCTGTGAGGTGTGAATTAAACATTACATTGTATCCT 1610
Db 281 ATAGATAGATAAAACTGTCTGTGAGGTGTGAATTAAACATTACATTGTATCCT 222

QY 1611 GG 1612
Db 221 GG 220

RESULT 14
US-10-001-857-41/C
; Sequence 41, Application US/10001857
; Publication No. US20020183500A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Sun, Yongming
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and P

FILE REFERENCE: DEX-0273
CURRENT APPLICATION NUMBER: US/10/001,857
CURRENT FILING DATE: 2001-11-20
PRIORITY APPLICATION NUMBER: 60/252,054
PRIORITY FILING DATE: 2000-11-20
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 111
; LENGTH: 815
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (206). (305)
; OTHER INFORMATION: a, c, g or t
; US-10-001-857-111

Query Match 2.8%; Score 87.8; DB 13; Length 815;
Best Local Similarity 83.0%; Pred. No. 9.4e-13; Mismatches 2; Indels 23; Gaps 1;
Matches 122; Conservative 0; Mismatches 2; Indels 23; Gaps 1;

QY 1910 TCATATTCTGAGGAATTGCCACCTTGCAGGATGAGTTATGACATTATTAAATAG 1969
Db 205 TCATATTCTGAGGAATTGCCACCTTGCAGGATG-----AG 169

QY 1970 GCAGAGAGGTGATGCAGGCTCACACCATGCTGTGAAACAGGAACCCAAAGGCAA 2029
Db 168 GCAGAGAGGTGATGCAGGCTCACACCATGCTGTGAAACAGGAACCCAAAGGCAA 109

QY 2030 CATTGGCTGTAGGTACCTGGTC 2056
Db 108 CATTGGCTGTAGGTACCTGGTC 82

Search completed: November 25, 2003, 03:08:51
Job time: 938 secs

; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 151
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-001-857-41

Query Match 4.5%; Score 140.4; DB 13; Length 151;
Best Local Similarity 99.3%; Pred. No. 1.3e-27;

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 21:45:44 ; Search time 779 Seconds
(without alignments)

10728.447 Million cell updates/sec

Title: US-10-001-857-42
Perfect score: 3096
Sequence: tttaactcacgaaactccagg.....attttttgacaaaaaaaaaa 3096

Scoring table: IDENTITY_NUC
Searched: Gapop 10.0 , Gapext 1.0
2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1981.DAT:*

3: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1982.DAT:*

4: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1983.DAT:*

5: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1984.DAT:*

6: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1985.DAT:*

7: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1986.DAT:*

8: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1988.DAT:*

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13: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1993.DAT:*

14: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA1994.DAT:*

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20: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA2000.DAT:*

21: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA2001A.DAT:*

22: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA2001B.DAT:*

23: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA2002.DAT:*

24: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA2003.DAT:*

25: /SIDS1/gcadata/geneseq/geneseqn-emb1/NA2003.DAT:*

ALIGNMENTS

Human prostate exp
Human prostate exp
Human prostate exp
Oligonucleotide fo
Oligonucleotide fo
Drosophila melanog
Drosophila melanog
Human lung specific
Human lung specific
Oligonucleotide fo
Oligonucleotide fo
Drosophila melanog
Drosophila melanog
Human spliced tran
Oligonucleotide fo
Oligonucleotide fo
Primer used in the
Human breast cance
Mouse ischaemic co
Human prostate exp
Primer used in the
Primer used in the
Oligonucleotide fo
Oligonucleotide fo
Animal test kit ma
Vector PEPEF1 con
Vector PEPEF1 cont
Primer used in the
Mycobacterium tube
Mycobacterium tube
Human ovarian tumo
Human gene express
Rabbit low density
Human polynucleot
Human polynucleoti
Listeria monocytog
Human colon cancer
N. meningitidis pa
Oligonucleotide fo

Human lung specific nucleic acid sequence SEQ ID NO:42.

Human; lung; lung specific nucleic acid; LSNA; lung specific protein;

KW LSP; cytostatic; gene therapy; vaccine; metastasis; lung cancer;

KW squamous cell carcinoma; gene; chromosome 9; ss.

OS Homo sapiens.

XX WO200264788-A2.

XX 20-NOV-2001; 2001WO-US45080.

XX PR 20-NOV-2000; 2000US-252054P.

XX PA (DIAD-) DIADEXUS INC.

XX Macina RA, Recipon H, Chen S, Sun Y, Liu C;

XX WPI; 2002-657601/70.

XX DR New lung specific nucleic acid useful in gene therapy or as vaccines

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
C 1	3096	100.0	3096 24 ABQ75303	Human lung specific
C 2	2577.8	83.3	2668 23 ABV23940	Human prostate exp
C 3	2577.8	83.3	2668 23 ABV29823	Human molecule for
C 4	2417.2	78.1	2488 24 AAL49929	cDNA encoding huma
C 5	717.4	23.2	719 24 ABS51309	Bovine EST associa
C 6	350.8	11.3	398 25 ABX50281	Oligonucleotide fo
C 7	343.8	11.1	799 24 ABQ51658	Oligonucleotide fo
C 8	343.8	11.1	799 24 ABQ51659	Oligonucleotide fo

PT for treating lung cancer (e.g. squamous cell carcinoma) or
non-cancerous lung diseases, as well as for diagnosing, monitoring or
staging these diseases -
XX
PS Claim 1; Page 168-169; 282PP; English.

QY	661	TTTGAAGAAGCTTGTGAGAATTAAAGTTGGGAGACTACTTCATGATAAGCTATTGGT	720
Db	721	CTTTTGAAAGCCATGTCTGCTATTGAAATGGATCCCAAGATGGATGCTGGCATGATT	780
QY	721	TTTGAAGAAGCTTGTGAGAATTAAAGTTGGGAGACTACTTCATGATAAGCTATTGGT	720
Db	781	GGAAACCAAGTTAATCGAAAGTTCTCAATTGAAATGGATCCCAGATGGATGCTGGCATGATT	840
QY	781	GGAAACCAAGTTAATCGAAAGTTCTCAATTGAAATGGATGCTGGCATGACTT	840
Db	841	AAAATTAAAGATCTCACCTGCTGAACGTAGGATTAGGATACATGTTTGCTGT	900
QY	841	AAAATTAAAGATCTCACCTGCTGAACGTAGGATTAGGATACATGTTTGCTGT	900
Db	901	TTGATAACGTTAGAACGGCCATTCACTGGCACAGACAGTATTGATAGGATTACATGTTGCTGT	960
QY	901	TTGATAACGTTAGAACGGCCATTCACTGGCACAGACAGTATTGATAGGATTACATGTTGCTGT	960
Db	961	CATAATCCAGACTTATAGAACGATCCTGCTATGAAAGGCTTTGCTCTGGGAATCTGAA	1020
QY	961	CATAATCCAGACTTATAGAACGATCCTGCTATGAAAGGCTTTGCTCTGGGAATCTGAA	1020
Db	1021	ATCTGTGACATTGCAAGGGAAAGTAATAAGCTGCTTTGAAAGAGAGATT	1080
QY	1021	ATCTGTGACATTGCAAGGGAAAGTAATAAGCTGCTTTGAAAGAGAGATT	1080
Db	1081	CAGTCATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTTCGAGTTACAGGC	1140
QY	1081	CAGTCATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTTCGAGTTACAGGC	1140
Db	1141	ATGCTAAAGATGTGGGGATGACATGCAAGAGACTCGAAGTCGACAA	1200
QY	1141	ATGCTAAAGATGTGGGGATGACATGCAAGAGACTCGAAGTCGACAA	1200
Db	1141	ATGCTAAAGATGTGGGGATGACATGCAAGAGACTCGAAGTCGACAA	1200
QY	1201	GGAGAAGAAAGAGATCCAGAACGTTGAACTAGAACACCAACATGTTAGCAGT	1260
Db	1201	GGAGAAGAAAGAGATCCAGAACGTTGAACTAGAACACCAACAAATGTTAGCAGT	1260
QY	1261	AGAGTCATGAAATTACTCGTGTACTGACAGTGTATTAGCCTTACTAAGAAAGAGACC	1320
Db	1261	AGAGTCATGAAATTACTCGTGTACTGACAGTGTATTAGCCTTACTAAGAAAGAGACC	1320
QY	1321	AGTGCTGTGCAAGCTCAAAATTGATGTTCAAGCAGCATCTCTGCCATT	1380
Db	1321	AGTGCTGTGCAAGCTCAAAATTGATGTTCAAGCAGCATCTCTCTGCCATT	1380
QY	1381	CATAATTGATCATGGCATCCAGGCCAGAACGATGATACTACAAAGGAGATCATCCA	1440
Db	1381	CATAATTGATCATGGCATCCAGGCCAGAACGATGATACTACAAAGGAGATCATCCA	1440
QY	1441	ATTATGATGGTTGAAACCCTTGTGAAACCAGAGGCTACTTCCACCTCCTCGA	1500
Db	1441	ATTATGATGGTTGAAACCCTTGTGAAACCAGAGGCTACTTCCACCTCCTCGA	1500
QY	1501	TATGCAAATAATTAAAGGAAGAAATGTTGAACTATTGCAAGATTAGATAGA	1560
Db	1501	TATGCAAATAATTAAAGGAAGAAATGTTGAACTATTGCAAGATTAGATAGA	1560
QY	1561	ATAAAACGTCTGTGAGGTGTTGAAATTACATTGATCCTGGATTTC	1620
Db	1561	ATAAAACGTCTGTGAGGTGTTGAAATTACATTGATCCTGGATTTC	1620
QY	1621	TGTGAATTAGTGAACAGTCACCATGTTCTCAAGATCTCTTACAACACTTC	1680
Db	1621	TGTGAATTAGTGAACAGTCACCATGTTCTCAAGATCTCTTACAACACTTC	1680
QY	1681	CTGGTGGATAACAAAGGTCTTGGAACTCATCTCATGCAAGACATGGTGAAGATGCA	1740
Db	1681	CTGGTGGATAACAAAGGTCTTGGAACTCATCTCATGCAAGACATGGTGAAGATGCA	1740
QY	1741	CTTCGGTCTTGTCAAGATCCTCCAGTGCTTCCCCAAGTGCTACCTATAATAATC	1800

Db	1741	CTTCGGTCTTTGTCAAGATCCTCCGAGTGCCTTCCCCAAGTGCTACCTATAATC	1800
QY	1801	ACCGAGCTAAGGACTGTATCGACTCCTTGTACTCACTGTGTTGGCCATTCTGAGC	1860
Db	1801	ACCGAGCTAAGGACTGTATCGACTCCTTGTACTCACTGTGTTGGCCATTCTGAGC	1860
QY	1861	TATTAGATCCATGGACATAACAGGGCTCGACAGAGAGTAAGCTTGGTCATATCTG	1920
Db	1861	TATTAGATCCATGGACATAACAGGGCTCGACAGAGAGTAAGCTTGGTCATATCTG	1920
QY	1921	AGGAATTGCCACCTGAGGATGAGTTATGACATTTATTAAATTAGGAGAGGT	1980
Db	1921	AGGAATTGCCACCTGAGGATGAGTTATGACATTTATTAAATTAGGAGAGGT	1980
QY	1981	TGATGCAGGCCAACCATGCTGTTGAAACAGGAACCCAAAGGAAACATTGGCTG	2040
Db	1981	TGATGCAGGCCAACCATGCTGTTGAAACAGGAACCCAAAGGAAACATTGGCTG	2040
QY	2041	TTAGGTACCTGGTCTTACCATAACCTTCGCATTATGATACAGTACCTCTAAGTG	2100
Db	2041	TTAGGTACCTGGTCTTACCATAACCTTCGCATTATGATACAGTACCTCTAAGTG	2100
QY	2101	CTTGAATTGGACTCTACAGTATGACCGAGTACTATTACATATGGTATCTCTGA	2160
Db	2101	CTTGAATTGGACTCTACAGTATGACCGAGTACTATTACATATGGTATCTCTGA	2160
QY	2161	ATTCCTTACGCATGGTTGATGTCACATGGTCAACATTGACTCGTGGCTCAAATGGCAGA	2220
Db	2161	ATTCCTTACGCATGGTTGATGTCACATGGTCAACATTGACTCGTGGCTCAAATGGCAGA	2220
QY	2221	GAAAGGATAATGGAGGAGCAGAAAGGCCGTAGTAGTAAACAAAGAAAAA	2280
Db	2221	GAAAGGATAATGGAGGAGCAGAAAGGCCGTAGTAGTAAACAAAGAAAAA	2280
QY	2281	GAAAGTCCGCCATTGAGCCGAGATCACATGAGCCAGATCAGAACATGTC	2340
Db	2281	GAAAGTCCGCCATTGAGCCGAGATCACATGAGCCAGATCAGAACATGTC	2340
QY	2341	TGGAATGTTAAACCATGGTAGCATGGACATGGACGGCAAGTACGTAAACCGAAGT	2400
Db	2341	TGGAATGTTAAACCATGGTAGCATGGACATGGACGGCAAGTACGTAAACCGAAGT	2400
QY	2401	TGAGCTGTAGTACAAGTGGTAGAACACAGGTGTGCTCCATTCAACAGTGTGAT	2460
Db	2401	TGAGCTGTAGTACAAGTGGTAGAACACAGGTGTGCTCCATTCAACAGTGTGAT	2460
QY	2461	GACCCCGCCGCACTACTACAGTCAAGGAATGTCGACCTCAATAATAG	2520
Db	2461	GACCCCGCCGCACTACTACAGTCAAGGAATGTCGACCTCAATAATAG	2520
QY	2521	CCCTCTCTCAGTCCTGAACTGTATGGCAGCTAGTAAGCCTAACAGCAA	2580
Db	2521	CCCTCTCTCAGTCCTGAACTGTATGGCAGCTAGTAAGCCTAACAGCAA	2580
QY	2581	AATGATATGGAAATATTCTAACCGGACATGGTAATAGGTTAACGGTGC	2640
Db	2581	AATGATATGGAAATATTCTAACCGGACATGGTAATAGGTTAACGGTGC	2640
QY	2641	CAAACCAACTTGTGTTATGAAGTTATGGCAGCTAGTAAGCTAACAGCAA	2700
Db	2641	CAAACCAACTTGTGTTATGAAGTTATGGCAGCTAGTAAGCTAACAGCAA	2700
QY	2701	TCCTCTGAATTGATCTCTGCTCATATAATTCTGTGTAACCTGGTGA	2760
Db	2701	TCCTCTGAATTGATCTCTGCTCATATAATTCTGTGTAACCTGGTGA	2760
QY	2761	GAGACTGGGAGGTGGCATAAGGGCAGAGCTCTTGAGATGGGACTTAGAGG	2820
Db	2761	GAGACTGGGAGGTGGCATAAGGGCAGAGCTCTTGAGATGGGACTTAGAGG	2820
QY	2821	CACATCACAGGCTCACATCAGGGAGATGGATTCTGGTAACAACCTCTA	2880

Db 2821 CACATCACAGGCTCACATCAGGGAGATGGATTCTGGTAACAACCTCTA 2880
 QY 2881 TAAGGAATACTTTAGTTGACAGCCTATATGACATGAAACTGCTGTTAAG 2940
 Db 2881 TAAGGAATACTTTAGTTGACAGCCTATATGACATGAAACTGCTGTTAAG 2940
 QY 2941 TGGTTTATTATGTTCCATGGAGAACTGGCTTATGAACTGCTGTTAAG 3000
 Db 2941 TGGTTTATTATGTTCCATGGAGAACTGGCTTATGAACTGCTGTTAAG 3000
 QY 3001 GGTTTATTACAGATTAATCAAATCATTTATGAAATGATGAGTGAATGCACTGTTAT 3060
 Db 3001 GGTTTATTACAGATTAATCAAATCATTTATGAAATGATGAGTGAATGCACTGTTAT 3060
 QY 3061 TTAAAGGTTATAATTCTGACAAAAAAA 3096
 Db 3061 TTAAAGGTTATAATTCTGACAAAAAAA 3096

RESULT 2
 ABV23940/C
 ID ABV23940 standard; cDNA; 2668 BP.
 XX
 AC ABV23940;
 XX
 DT 16-SEP-2002 (first entry)
 XX Human prostate expression marker cDNA 23931.
 XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
 KW pharmacogenomic marker; gene; ss.
 XX OS Homo sapiens.
 XX PN WO200160860-A2.
 XX PD 23-APR-2001
 XX PF 20-FEB-2001; 2001WO-US05171.
 XX PR 17-FEB-2000; 2000US-183319P.
 PR 16-MAR-2000; 2000US-189862P.
 PR 25-MAY-2000; 2000US-207454P.
 PR 09-JUN-2000; 2000US-211314P.
 PR 18-JUL-2000; 2000US-219007P.
 PR 13-DEC-2000; 2000US-255281P.
 XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX PI Schlegel R, Endege WO, Monahan JE;
 XX DR; 2001-662795/76.

The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV0010-ABV62213) of the specification or its complement. (I) is useful for:
 (a) assessing whether a patient is afflicted with prostate cancer;
 (b) monitoring the progression of prostate cancer in a patient;
 (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;
 (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
 (e) selecting a composition for inhibiting prostate cancer in a patient;
 (f) assessing the prostate cell carcinogenic potential of a compound;
 (g) determining whether prostate cancer has metastasized in a patient;
 (h) assessing the aggressiveness or indolence of prostate cancer in a patient;

CC	(II) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX	Sequence 2668:BP; 742 A; 617 C; 483 G; 820 T; 6 other;
SG	Query Match 83.3%; Score 2577.8; DB 23; Length 2668; Best Local Similarity 98.8%; Pred. No. 0; Mismatches 7; Indels 26; Gaps 3; Matches 2638; Conservative 0; Mismatches 7; Indels 26; Gaps 3;
QY	426 CGCATGCCACGGCTGCCGGCTGGCTGGAGAGGGAGGGGGGGGGGGCGA 485
Db	2668 CGCATGCCACGGCTGCCGGCTGGAGAGGGAGGGGGGGCGA 2609
QY	486 GCGGCGTGTATTCCGGTCCGACAGTGCCTGGCGACAGTGCCTGGCG 545
Db	2608 GCGGCGTGTATTCCGGTCCGACAGTGCCTGGCGACAGTGCCTGGCG 2549
QY	546 ACTAGGCATAATGGTTATGAAGCTCTGTAGATGATGACGATTAGGATGGAGCTCAG 605
Db	2548 AGTAGGCATAATGGTTATGAAGCTCTGTAGATGATGACGATTAGGATGGAGCTCAG 2489
QY	606 TATGCCAGAAAATGGAGAAAGCAATACAACACTGGGGACTACTTCATGATAAGCTTACCCAGATTGTA 665
Db	2488 TATGCCAGAAAATGGAGAAAGCAATACAACACTGGGGACTACTTCATGATAAGCTTACCCAGATTGTA 2429
QY	666 AGAACGCTGTGAGAAATAAGTGGAGAAAGCAATACAACACTGGGGACATTACCCAGATTGTA 725
Db	2428 AGAACGCTGTGAGAAATAAGTGGAGAAAGCAATACAACACTGGGGACTACTTCATGATAAGCTTACCCAGATTGTA 2369
QY	726 TGAAGCCATGCTGCTTGAATGATGGATCCAAGATGGCTGGCATGATTGAAA 785
Db	2368 TGAAGCCATGCTGCTTGAATGATGGATCCAAGATGGCTGGCATGATTGAAA 2309
QY	786 CCAAGTTAACGAAAGTTCTCAATTGATGGACAGCTATCAAGGATGGCTACCTATAAAAT 845
Db	2308 CCAAGTTAACGAAAGTTCTCAATTGATGGACAGCTATCAAGGATGGCTACCTATAAAAT 2249
QY	846 TAAGATCTCACCTTGCTGAACCTTGATGGATTAGGATACATGTTGCTGTTGAT 905
Db	2248 TAAGATCTCACCTTGCTGAACCTTGATGGATTAGGATACATGTTGCTGTTGAT 2189
QY	906 AACGGGGTTAGAAGGCCATTCACTGGCACAGACAGTAAAGCTTACATTCAA 965
Db	2188 AACGGGGTTAGAAGGCCATTCACTGGCACAGACAGTAAAGCTTACATTCAA 2129
QY	966 TCCAGACTTATAGAAGATCCTGCTATGAAGGCTTGTCTGGATTTACATTCAA 1025
Db	2128 TCCAGACTTATAGAAGATCCTGCTATGAAGGCTTGTCTGGATTTACATTCAA 2069
QY	1026 TGACATTGCAAGGAAAGTAATAAGCTGCTGTTTGAAAGGAGATTTCAGTC 1085
Db	2068 TGACATTGCAAGGAAAGTAATAAGCTGCTGTTTGAAAGGAGATTTCAGTC 2009
QY	1086 ATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACAGGCATGCT 1145
Db	2008 ATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACAGGCATGCT 1949
QY	1146 AAAAGATGTGGAGGATGACATGCAAGAACCAACAAAGTGTAGCTCGAGATGCT 1205
Db	1948 AAAAGATGTGGAGGATGACATGCAAGAACCAACAAAGTGTAGCTCGAGATGCT 1889
QY	1206 AGAAAGAGATCCAGAGGTGACAGTGTGACAGTGTGACAGATGCTCGAGATGCT 1265
Db	1888 AGAAAGAGATCCAGAGGTGACAGTGTGACAGTGTGACAGATGCTCGAGATGCT 1829
QY	1266 GAAATTACTCGTGTGTACTGACAGTGTGACAGTGTGACAGTGTGACAGTGTGAC 1325
Db	1828 GAAATTACTCGTGTGTACTGACAGTGTGACAGTGTGACAGTGTGACAGTGTGAC 1769
QY	1326 TGTGGAGAGCTCAAATGTATGGTCAAGCAGGAGATCTTCTTCTGCCATTCAA 1385
Db	1768 TGTGGAGAGCTCAAATGTATGGTCAAGCAGGAGATCTTCTTCTGCCATTCAA 1709
QY	1386 TTCAATTGCAATCATGGCATCCAGGCCAGAATGATACTACAAAGGAGATCATCCATT 1445
Db	1708 TTCAATTGCAATCATGGCATCCAGGCCAGAATGATACTACAAAGGAGATCATCCATT 1649
QY	1446 GATGGGTTTGAAACCCTGTGAAACCAGAGCTACTTCCACCTTCCCTCGATATGC 1505
Db	1648 GATGGGTTTGAAACCCTGTGAAACCAGAGCTACTTCCACCTTCCCTCGATATGC 1589
QY	1506 AAATAATAAAGGAAGAAATGGTGAACATTGCAAGATAATAGATAATAAA 1565
Db	1589 AAATAATAAAGGAAGAAATGGTGAACATTGCAAGATAATAGATAATAAA 1529
QY	1566 AACAGTGTCTGTGAGGGTTGTGAATTACAATTACATTGATCTCGGATTTCCTGTA 1625
Db	1528 AACAGTGTCTGTGAGGGTTGTGAATTACAATTACATTGATCTCGGATTTCCTGTA 1469
QY	1626 ATTAGTGAACAGTCACCATGTTCTCAAGATCTCGTTACAACCCTTCCCTGTA 1685
Db	1468 ATTAGTGAACAGTCACCATGTTCTCAAGATCTCGTTACAACCCTTCCCTGTA 1409
QY	1686 GGATAACAAAGGTCTTGGAAACTCTCATCTCATGCAAGACATGGTAAAGATGCCTCG 1745
Db	1408 GGATAACAAAGGTCTTGGAAACTCTCATCTCATGCAAGACATGGTAAAGATGCCTCG 1349
QY	1746 GTCTTTGTCAGTCTCCCGAGTGTCTTCCCAGTGTACCTATAATAATCACCAG 1805
Db	1348 GTCTTTGTCAGTCTCCCGAGTGTCTTCCCAGTGTACCTCATGATAAGCTTCCCTG 1291
QY	1806 GCTAAGGACTGTATCCCTCGAGTGTCTTCCCAGTGTACCTATAATAATCACCAG 1865
Db	1290 GCTAAGGACTGTATCCCTCGAGTGTCTTCCCAGTGTACCTATAATAATCACCAG 1231
QY	1866 CAGATCCATGGACATAACGGGCTCGACAGACAGATAAGCTTGGCTTCGGCATTTGAGGAA 1925
Db	1230 CAGATCCATGGACATAACGGGCTCGACAGACAGATAAGCTTGGCTTCGGCATTTGAGGAA 1171
QY	1926 TTGCCCCACTTGCAAGGATGAGTTTAATGGACAGATGGCTGGCTGGTTGAGGAA 1985
Db	1170 TTGCCCCACTTGCAAGGATGAGTTTAATGGACAGATGGCTGGCTGGTTGAGGAA 1134
QY	1986 CAGCGCTTACACCATGCTGTGAAACAGGAACCCAAAGGCAACATTGGCCTGGTTGAG 2045
Db	1133 CAGCGCTTACACCATGCTGTGAAACAGGAACCCAAAGGCAACATTGGCCTGGTTGAG 1074
QY	2046 GTACCTGGCTTACCATACCTGGCTATGACATTAAAGCTTCTCAAGTGGCTTGTG 2105
Db	1073 GTACCTGGCTTACCATACCTGGCTATGACATTAAAGCTTCTCAAGTGGCTTGTG 1014
QY	2106 ATGGAACTTACAGTGTGCTGAG-TACTATTACATATATTGGTATCTCTCTGAAATT 2164
Db	1013 ATGGAACTTACAGTGTGCTGAG-TACTATTACATATATTGGTATCTCTCTGAAATT 954
QY	2165 CTTTACGGCATGGTTGATGTCAACATGGCTCGCCATGGCTCTCAAATGGCAGAGAA 2224
Db	953 CTTTACGGCATGGTTGATGTCAACATGGCTCGCCATGGCTCTCAAATGGCAGAGAA 894
QY	2225 AGGATAATGGAAGGAGCAGGAGAAGGCCAGTAGTAAACAAAGAAAAAGAAA 2284
Db	893 AGGATAATGGAAGGAGCAGGAGAAGGCCAGTAGTAAACAAAGAAAAAGAAA 834
QY	2285 GTTGGCCCATGGCGAGAGATCACATGGCTCGCCATGGCTCTCAAATGGCAGAGAA 2344
Db	833 GTTGGCCCATGGCGAGAGATCACATGGCTCGCCATGGCTCTCAAATGGCAGAGAA 774
QY	2345 ATGTTAAACCATGGTAGGATTGACATGGACAGGTTGCTCCATTCAAAGTGTGAC 2404
Db	773 ATGTTAAACCATGGTAGGATTGACATGGACAGGTTGCTCCATTCAAAGTGTGAC 714
QY	2405 CTGATAGTGAACAGTTCGGTACTGACAGTGTGACAGTGTGAC 2464
Db	713 CTGATAGTGAACAGTTCGGTACTGACAGTGTGACAGTGTGAC 654
QY	2465 CGGCCGCACTTACAGTTCAAGGAATGTGACCTCAATAATAAGCCT 2524

Db	653	CGCCGCCAGTGCACACTACAGTTCAAGGAATGTCTGACCTCAATAATAGCCCT	594	PI	Schlegel R., Endege WU, Moniaiati JE;
Db	2525	CCTCCTCAGTCTCTGAACTGTATGGCAGCTAGTAAGCACTTCACAGGCAAATG	2584	DR	WPI; 2001-662795/76.
Qy				XX	
Qy	593	CCTCCTCAGTCTCTGAACTGTATGGCAGCTAGTAAGCACTTCACAGGCAAATG	534	PT	Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer -
Qy	533	ATATTGGAATATTCTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	2644	PT	
Qy	2585	ATATTGGAATATTCTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	2644	XX	Claim 1; Page 6420; 11750pp; English.
Db	413	ATATTGGAATATTCTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	474	PS	
Qy	473	CTTGAATTGATTCTCTGCTCATTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	414	XX	The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for:
Db	413	CTTGAATTGATTCTCTGCTCATTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	414	CC	(a) assessing whether a patient is afflicted with prostate cancer;
Db	2705	CCTGAATTGATTCTCTGCTCATTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	2704	CC	(b) monitoring the progression of prostate cancer in a patient;
Qy	2645	CCTGAATTGATTCTCTGCTCATTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	2644	CC	(c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;
Qy	413	CTTGAATTGATTCTCTGCTCATTAACCGGACCATGAGGTTAATAGAATTAAAGGTGCCAA	414	CC	(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
Qy	2765	CTGGGGAGGTGCCATAAGGGCAGGTCTTCAGGACACAAGGAATCTAAAGTCC	2704	CC	(e) selecting a composition for inhibiting prostate cancer in a patient;
Db	353	CTGGGGAGGTGCCATAAGGGCAGGTCTTCAGGACACAAGGAATCTAAAGTCC	294	CC	(f) assessing the prostate cell carcinogenic potential of a compound;
Qy	2825	TCACACAGGCTCACATCACGGGAAGTGAGATGGATTCTGGGTAACAACTCATTAAAG	2884	CC	(g) determining whether prostate cancer has metastasized in a patient;
Db	293	TCACACAGGCTCACATCACGGGAAGTGAGATGGATTCTGGGTAACAACTCATTAAAG	234	CC	(h) assessing the aggressiveness or indolence of prostate cancer in a patient;
Db	2885	GAATACCTTTAGTTGACAGCCTTATGACATGAATGAAACTGCTGTTAAAGTGG	2944	CC	(I) is also useful as a pharmacodynamic or pharmacogenomic marker.
Qy	2885	GAATACCTTTAGTTGACAGCCTTATGACATGAATGAAACTGCTGTTAAAGTGG	2944	XX	Sequence 2668 BP; 742 A; 617 C; 483 G; 820 T; 6 other;
Db	233	GAATACCTTTAGTTGACAGCCTTATGACATGAATGAAACTGCTGTTAAAGTGG	174	SO	
Qy	2945	TTATTACAGATTAATCACAATCATTTTATGAATGTGATTGACAGGTTATGGTT	3004	Query Match	83.3%; Score 2577.8; DB 23; Length 2668;
Db	173	TTATTACAGATTAATCACAATCATTTTATGAATGTGATTGACAGGTTATGGTT	114	Best Local Similarity	98.8%; Pred. No. 0;
Db	113	TTATTACAGATTAATCACAATCATTTTATGAATGTGATTGACAGGTTATGGTT	54	Matches	2638; Conservative 0; Mismatches 7; Indels 26; Gaps 3;
Qy	3005	TTATTACAGATTAATCACAATCATTTTATGAATGTGATTGACAGGTTATGGTT	3064	Db	2668 CGCATGCCTGCACGGTCCGGCTGGCTGAGAGGGAGGGGGGGGGGGCGA 485
Db	113	TTATTACAGATTAATCACAATCATTTTATGAATGTGATTGACAGGTTATGGTT	54	Qy	426 GCGGGGCTCGTTATTCCGTGTCGGACAGTGCGTGGGGCTGAGAGGGAGGGGGGGGGCGA 2609
Qy	3065	AAAGGTAAATTCTGACAAAAAAA	3095	Db	2668 CGCATGCCTGCACGGTCCGGCTGGCGCTGGAGACGGAGACGGAGACGGAGA 545
Db	53	AAAGGTAAATTCTGACAAAAAAA	23	Qy	486 GCGGGGCTCGTTATTCCGTGTCGGACAGTGCGTGGGGGGGGGGCGA 2549
Db	2608	GCGGGGCTCGTTATTCCGTGTCGGACAGTGCGTGGGGGGGGGGCGA 2549		Db	2608 GCGGGGCTCGTTATTCCGTGTCGGACAGTGCGTGGGGGGGGGGCGA 2549
Qy	546	AAAGGTAAATTCTGACAAAAAAA	605	Qy	546 AGTAGGCCATAATGGTTATGAAGCTCTGTAGATGATGACGATTAGCTCGAG 605
Db	2548	AAAGGTAAATTCTGACAAAAAAA	23	Db	2548 AGTAGGCCATAATGGTTATGAAGCTCTGTAGATGACGATTAGCTCGAG 2489
Qy	606	TATGCCAGAAAAATGGGAAAGCAATACAACACTGGGTGACATACCAAGATTGA	665	Qy	606 TATGCCAGAAAAATGGGAAAGCAATACAACACTGGGTGACATACCAAGATTGA
Db	2488	TATGCCAGAAAAATGGGAAAGCAATACAACACTGGGTGACATACCAAGATTGA	2429	Db	2488 TATGCCAGAAAAATGGGAAAGCAATACAACACTGGGTGACATACCAAGATTGA
Qy	666	AGAAGCTTGTGGAGAATTAAGTGGGAGAACTACTCATGATAAGCTATTGGCTTT	725	Qy	666 AGAAGCTTGTGGAGAATTAAGTGGGAGAACTACTCATGATAAGCTATTGGCTTT
Db	2428	AGAAGCTTGTGGAGAATTAAGTGGGAGAACTACTCATGATAAGCTATTGGCTTT	2369	Db	2428 AGAAGCTTGTGGAGAATTAAGTGGGAGAACTACTCATGATAAGCTATTGGCTTT
Qy	726	TGAAGCCATGTCTGCTTATGAAATGGGAGAACTACTCATGATAAGCTATTGGCTTT	785	Qy	726 TGAAGCCATGTCTGCTTATGAAATGGGAGAACTACTCATGATAAGCTATTGGCTTT
Db	2368	TGAAGCCATGTCTGCTTATGAAATGGGAGAACTACTCATGATAAGCTATTGGCTTT	2309	Db	2368 TGAAGCCATGTCTGCTTATGAAATGGGAGAACTACTCATGATAAGCTATTGGCTTT
Qy	786	CAGGTAACTGAAAGTCTCAATTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT	845	Qy	786 CAGGTAACTGAAAGTCTCAATTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT
Db	2308	CAGGTAACTGAAAGTCTCAATTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT	2249	Db	2308 CAGGTAACTGAAAGTCTCAATTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT
Qy	846	TAAGATCTCACCTGCTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT	905	Qy	846 TAAGATCTCACCTGCTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT
Db	2248	TAAGATCTCACCTGCTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT	2189	Db	2248 TAAGATCTCACCTGCTGAACTGGGAGAACTACTCATGATAAGCTATTGGCTTT
Qy	906	AACGTGGTTAGAAGGCCATTACTGGCACAGACAGTATTACGTGTTTGCTGTTGAT	965	Qy	906 AACGTGGTTAGAAGGCCATTACTGGCACAGACAGTATTACGTGTTTGCTGTTGAT
Db	2188	AACGTGGTTAGAAGGCCATTACTGGCACAGACAGTATTACGTGTTTGCTGTTGAT	2129	Db	2188 AACGTGGTTAGAAGGCCATTACTGGCACAGACAGTATTACGTGTTTGCTGTTGAT
Qy	966	TCCAGACTTATAGAAGATCTGCTATGAAAGGCTTGTGCTCTGGAACTCTGAAATCTG	1025	Qy	966 TCCAGACTTATAGAAGATCTGCTATGAAAGGCTTGTGCTCTGGAACTCTGAAATCTG
Db	2128	TCCAGACTTATAGAAGATCTGCTATGAAAGGCTTGTGCTCTGGAACTCTGAAATCTG	2069	Db	2128 TCCAGACTTATAGAAGATCTGCTATGAAAGGCTTGTGCTCTGGAACTCTGAAATCTG
Qy	1026	TGACATGCAAGGAAAGTAATAAGCTGCTTTGAAAGGAGATTTCAGTC	1085	Qy	1026 TGACATGCAAGGAAAGTAATAAGCTGCTTTGAAAGGAGATTTCAGTC

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Db	1013 AATTGGAACCTACAGTATGCACCGAGAACGGAA	2224
QY	2165 CTTTACGCATGGTTGATGTCACATTGAGTCGTGCGGATGGCTCTCAATGGCAGAGGA	2009
Db	953 CTTTACGCATGGTTGATGTCACATTGAGTCGTGCGGATGGCTCTCAATGGCAGAGGA	894
QY	2225 AGGATAATGGAAGAGCAGCAGAAGGCCGTAGTAGTAAACAAAGAAAAAGAAA	2284
Db	893 AGGATAATGGAAGAGCAGCAGAAGGCCGTAGTAGTAAACAAAGAAAAAGAAA	834
QY	2285 GTTCGCCATTGAGCCGAGAGCACAAATGAGCCAGCATTCAGAACATGTTGAGTGC	1949
Db	833 GTTCGCCATTGAGCCGAGAGCACAAATGAGCCAGCATTCAGAACATGTTGAGTGC	774
QY	2345 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACTAGT	1889
Db	773 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACTAGT	1829
QY	2404 CTGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACCGAGT	1888
Db	773 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACCGAGT	1829
QY	2464 CCTGCCGCACTTCCCTGATCCACCTACCCCTTCTGCCATTCAAACAGTGTGATGAC	1888
Db	773 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACCGAGT	1829
QY	2465 CGCCGCCAGTGCACACTTACAGTCAAGAACAGGTGTGCTCCATTCAACAGTGTGATGAC	1888
Db	773 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACCGAGT	1829
QY	2524 CCTCCCTCAGTCTCTGAACTGTGATGACATGGTAAACAGGTGTGCTCCATTCAACAGTGTGATGAC	1888
Db	773 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACCGAGT	1829
QY	2584 CCTCCCTCAGTCTCTGAACTGTGATGACATGGTAAACAGGTGTGCTCCATTCAACAGTGTGATGAC	1888
Db	773 ATGTTAAACCATGGTACATGACATGGACAGTGCTTATAGCCTTAAGAAGGACCGAGT	1829
QY	2644 ATATTGGAATAATTCTAACCGACCATGAGGTAAATAGAATAAA	1505
Db	593 ATATTGGAATAATTCTAACCGACCATGAGGTAAATAGAATAAA	594
QY	2704 CCCAACTTGTGTTATGAGGTATTGGCAGGACACAAAGGAATCTAAAGGTCCAA	1505
Db	593 ATATTGGAATAATTCTAACCGACCATGAGGTAAATAGAATAAA	594
QY	2764 CCTGAATTGTGATTCTGCTCATAAATTTCCTGGATTTCCTGTGA	1505
Db	413 CCTGAATTGTGATTCTGCTCATAAATTTCCTGGATTTCCTGTGA	354
QY	2824 CTGGGGAGGTGCCATAAGGGCAGAGTCTTCTGAGCTCAACTCTAGAGGCACA	1505
Db	353 CTGGGGAGGTGCCATAAGGGCAGAGTCTTCTGAGCTCAACTCTAGAGGCACA	294
QY	2884 TCACCGAGCTCCACATCACGGGAAGTGAGATGGATTCTGGTAACACTTATAAG	1505
Db	353 CTGGGGAGGTGCCATAAGGGCAGAGTCTTCTGAGCTCAACTCTAGAGGCACA	294
QY	2944 GAATACTTTAGTTGACAGGCTTATGACATGAATGAACACTGCTGTTAAAGTGT	1505
Db	353 CTGGGGAGGTGCCATAAGGGCAGAGTCTTCTGAGCTCAACTCTAGAGGCACA	294
QY	3004 TTATTACAGATTAATCACAAATCATTTATGATGATGAAACTGCTGTTAAAGTGT	1505
Db	3005 TTATTACAGATTAATCACAAATCATTTATGATGATGAAACTGCTGTTAAAGTGT	3064
QY	3064 113 113 TTATTACAGATTAATCACAAATCATTTATGATGATGAAACTGCTGTTAAAGTGT	1505
Db	3065 AAAGTTAATTTCTGACAAAAAAA	3095
QY	53 AAAGTTAATTTCTGACAAAAAAA	23
RESULT 4		
AAL49929		
ID AAL49929		
XX		
AC AAL49929;		
XX		

DT	10-DEC-2002	(first entry)
Db	181	CCAGATTGAAAGAACCTGGAGAATTAAAGTTGGAGAACTTCATGATAAGCT
Qy	714	ATTGGTCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG
Db	241	ATTGGCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG
XX		Human; molecule for disease detection and treatment; MDDT; gene therapy; cytostatic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic; antiinflammatory; antiasthmatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; cardiant; antianginal; gene; ss.
KW		
KW		
KW		
XX		Homo sapiens.
OS		
XX		
PN		WO200270709-A2.
XX		
PD		12-SEP-2002.
XX		
PP		08-FEB-2002; 2002WO-US03709.
XX		
PR		09-FEB-2001; 2001US-268117P.
PR		15-FEB-2001; 2001US-269618P.
PR		23-FEB-2001; 2001US-271118P.
PR		07-MAR-2001; 2001US-274486P.
PR		09-MAR-2001; 2001US-274436P.
PR		28-NOV-2001; 2001US-334229P.
PR		01-FEB-2002; 2002US-353284P.
XX		
PA		(INCY-) INCYTE GENOMICS INC.
XX		
PI		Lal PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y; Lu DAM;
PI		Honchell CD, Yue H, Ding L, Gietzen KJ, Ison CH, MM, Tang YT;
PI		Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;
PI		Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;
XX		
DR		WPI; 2002-713453/77.
XX		
DR		P-PADB; AAO19400.
XX		
PT		New human molecules for disease detection and treatment (MDDT), useful for diagnosing, treating and preventing diseases or conditions associated with the aberrant MDDT expression, e.g. cancer, AIDS, asthma, diabetes, hepatitis -
PT		
XX		Claim 11; Page 159-160; 177pp; English.
PS		
XX		The present invention relates to human proteins and coding sequences of molecules for disease detection and treatment MDDT. The sequences can be used in the treatment of diseases associated with the decreased expression or overexpression of MDDT, such as cell proliferative (cancer, atherosclerosis, hepatitis), autoimmune/inflammatory (e.g. AIDS, renal allergies, Addison's disease, asthma), developmental (dwarfism, renal tubular acidosis), neurological (e.g. stroke, Parkinson's disease, epilepsy) and cardiovascular (congestive heart failure, myocardial infarction, angina pectoris) disorders. The present sequence is a coding sequence of the invention.
CC		
CC		Sequence 2488 BP; 768 A; 461 C; 567 G; 692 T; 0 other;
SQ		
Query Match		78.1%; Score 2417.2; DB 24; Length 2488;
Best Local Similarity		98.5%; Pred. No. 0;
Matches		2470; Conservative 0; Mismatches 13; Indels 25; Gaps 2;
Qy		474 GCGGGGGCGAGGGGGCGTGTATTCCGGACAGTGGCTGGCGCCGGT 533
Db		1 GCGGGGGCGAGGGGGCGTGTATTCCGGACAGTGGCTGGCGCCGGT 60
Qy		534 GACCACGGAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGACGATCAGG 593
Db		61 GACCACGGAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGACGATCAGG 120
Qy		594 ATGGGAGCTAGTATGCCAGAAAATGGAGAAAGCAATACAACACTGGTGGACATTAC 653
Db		121 ATGGGAGCTAGTATGCCAGAAAATGGAGAAAGCAATACAACACTGGTGGACATTAC 180
Qy		654 CCAAGATTGAAAGAACCTTGTCGAGAATTAAAGTGGAGAACTACTCATGATAAGCT 713
Db		181 CCAGATTGAAAGAACCTGGAGAATTAAAGTTGGAGAACTTCATGATAAGCT 240
Qy		714 ATTGGTCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG 773
Db		241 ATTGGCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG 300
XX		Human; molecule for disease detection and treatment; MDDT; gene therapy; cytostatic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic; antiinflammatory; antiasthmatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; cardiant; antianginal; gene; ss.
KW		
KW		
KW		
XX		
OS		
XX		
PN		
XX		
PD		12-SEP-2002.
XX		
PP		08-FEB-2002; 2002WO-US03709.
XX		
PR		09-FEB-2001; 2001US-268117P.
PR		15-FEB-2001; 2001US-269618P.
PR		23-FEB-2001; 2001US-271118P.
PR		07-MAR-2001; 2001US-274486P.
PR		09-MAR-2001; 2001US-274436P.
PR		28-NOV-2001; 2001US-334229P.
PR		01-FEB-2002; 2002US-353284P.
XX		
PA		(INCY-) INCYTE GENOMICS INC.
XX		
PI		Lal PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y; Lu DAM;
PI		Hafalia AJA, Ghandi AR, Thangavelu K, Sanjanwala MM, Tang YT;
PI		Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;
PI		Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;
XX		
DR		WPI; 2002-713453/77.
XX		
DR		P-PADB; AAO19400.
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CC		
CC		Sequence 2488 BP; 768 A; 461 C; 567 G; 692 T; 0 other;
SQ		
Query Match		78.1%; Score 2417.2; DB 24; Length 2488;
Best Local Similarity		98.5%; Pred. No. 0;
Matches		2470; Conservative 0; Mismatches 13; Indels 25; Gaps 2;
Qy		474 GCGGGGGCGAGGGGGCGTGTATTCCGGACAGTGGCTGGCGCCGGT 533
Db		1 GCGGGGGCGAGGGGGCGTGTATTCCGGACAGTGGCTGGCGCCGGT 60
Qy		534 GACCACGGAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGACGATCAGG 593
Db		61 GACCACGGAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGACGATCAGG 120
Qy		594 ATGGGAGCTAGTATGCCAGAAAATGGAGAAAGCAATACAACACTGGTGGACATTAC 653
Db		121 ATGGGAGCTAGTATGCCAGAAAATGGAGAAAGCAATACAACACTGGTGGACATTAC 180
Qy		654 CCAAGATTGAAAGAACCTTGTCGAGAATTAAAGTGGAGAACTACTCATGATAAGCT 713
Db		181 CCAGATTGAAAGAACCTGGAGAATTAAAGTTGGAGAACTTCATGATAAGCT 240
Qy		714 ATTGGTCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG 773
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KW		
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OS		
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PN		
XX		
PD		12-SEP-2002.
XX		
PP		08-FEB-2002; 2002WO-US03709.
XX		
PR		09-FEB-2001; 2001US-268117P.
PR		15-FEB-2001; 2001US-269618P.
PR		23-FEB-2001; 2001US-271118P.
PR		07-MAR-2001; 2001US-274486P.
PR		09-MAR-2001; 2001US-274436P.
PR		28-NOV-2001; 2001US-334229P.
PR		01-FEB-2002; 2002US-353284P.
XX		
PA		(INCY-) INCYTE GENOMICS INC.
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PI		Lal PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y; Lu DAM;
PI		Hafalia AJA, Ghandi AR, Thangavelu K, Sanjanwala MM, Tang YT;
PI		Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;
PI		Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;
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DR		WPI; 2002-713453/77.
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DR		P-PADB; AAO19400.
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CC		
CC		Sequence 2488 BP; 768 A; 461 C; 567 G; 692 T; 0 other;
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Best Local Similarity		98.5%; Pred. No. 0;
Matches		2470; Conservative 0; Mismatches 13; Indels 25; Gaps 2;
Qy		474 GCGGGGGCGAGGGGGCGTGTATTCCGGACAGTGGCTGGCGCCGGT 533
Db		1 GCGGGGGCGAGGGGGCGTGTATTCCGGACAGTGGCTGGCGCCGGT 60
Qy		534 GACCACGGAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGACGATCAGG 593
Db		61 GACCACGGAGTAGGCATAATGGTTATGAAGGCTCTGTAGATGACGATCAGG 120
Qy		594 ATGGGAGCTAGTATGCCAGAAAATGGAGAAAGCAATACAACACTGGTGGACATTAC 653
Db		121 ATGGGAGCTAGTATGCCAGAAAATGGAGAAAGCAATACAACACTGGTGGACATTAC 180
Qy		654 CCAAGATTGAAAGAACCTTGTCGAGAATTAAAGTGGAGAACTACTCATGATAAGCT 713
Db		181 CCAGATTGAAAGAACCTGGAGAATTAAAGTTGGAGAACTTCATGATAAGCT 240
Qy		714 ATTGGTCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG 773
Db		241 ATTGGCTTTGAAGCCATGCTGCTATTGAATGATGGATCCCAAGATGGATGCTGG 300
XX		Human; molecule for disease detection and treatment; MDDT; gene therapy; cytostatic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic; antiinflammatory; antiasthmatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; cardiant; antianginal; gene; ss.
KW		
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KW		
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OS		
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PN		
XX		
PD		12-SEP-2002.
XX		
PP		08-FEB-2002; 2002WO-US03709.
XX		
PR		09-FEB-2001; 2001US-268117P.
PR		15-FEB-2001; 2001US-269618P.
PR		23-FEB-2001; 2001US-271118P.
PR		07-MAR-2001; 2001US-274486P.
PR		09-MAR-2001; 2001US-274436P.
PR		28-NOV-2001; 2001US-334229P.
PR		01-FEB-2002; 2002US-353284P.
XX		
PA		(INCY-) INCYTE GENOMICS INC.
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PI		Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;
PI		Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;
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DR		WPI; 2002-713453/77.
XX		
DR		P-PADB; AAO19400.
XX		
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PT		
XX		Claim 11; Page 159-160; 177pp; English.
PS		
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CC		
CC		Sequence 2488 BP; 768 A; 461 C; 567 G; 692 T; 0 other

Tue Nov 25 09:35:51 2003

Db	1261 AGATGCACTTCGGCTTGTCACTCCTCG--GTGCTTCCCCAAGTGTACCTAT	1318	QY	2874 CTCATTATAAGGAACTTTAGTTGACAGCCTATAGCATGAATGAAACTGGCTGT	2933
QY	1794 AATATCACCAAGGCTAACGACTGTATCGACTCTTGTACTCACTGTCGGCCATTC	1853	Db	2376 CTCATTATAAGGAACTTTAGTTGACAGCCTTATAGCATGAATGAAACTGGCTGT	2435
Db	1319 AATATCACCAAGGCTAACGACTGTATCGACTCTTGTACTCACTGTCGGCCATTC	1378	QY	2934 TTAAGTGGTTATTATGTCATGGAGAACTGGCTTATTGAAT	2981
QY	1854 TGTAGTCTTACAGATCCATGGACATAACAGGGCTCGACAGAGAGATAAGCTTGTAT	1913	Db	2436 TTTAAGTGGTTATTATGTCATGGACACTGGTTCATTAAT	2483
Db	1379 TGTAGTCTTACAGATCCATGGACATAACAGGGCTCGACAGAGAGATAAGCTTGTAT	1438			
QY	1914 ATTCTTGAGGAATTGCCACCTGAGGATTTAGCATTTTAAAGGCAG 1973				
Db	1439 ATTCTTGAGGAATTGCCACCTGAGGATTTAGCATTTTAAAGGCAG 1475				
QY	1974 AGAAGGTGATGCAGCCTCACACCATGCTGTGAACAGGAACCCCAAAGGACATT	2033			
Db	1476 AGAAGGTGATGCAGCCTCACACCATGCTGTGAACAGGAACCCCAAAGGACATT	1535			
QY	2034 TGGCCTGTTAGGTACCTGGCTTACCATAACCTTCGCATTATGATACAGTACCTTC	2093			
Db	1536 TGGCCTGTTAGGTACCTGGCTTACCATAACCTTCGCATTATGATACAGTACCTTC	1595			
QY	2094 TAAGTGGCTTGAACTCTACAGATGCTGAGGACTATTACATATATTGGATC	2153			
Db	1596 TAAGTGGCTTGAACTCTACAGATGCTGAGGACTATTACATATATTGGATC	1655			
QY	2154 TCTCTGAATTCCATTACGGATGGTGTAGTCACATGGCTCTCAA	2213			
Db	1656 TCTCTGAATTCCATTACGGATGGTGTAGTCACATGGCTCTCAA	1715			
QY	2214 TGGCAGAGGAAGGATAATGGAGAGCAGCAGAAAGGCCGTAGTAGTAAGAACAAAAGA	2273			
Db	1716 TGGCAGAGGAAGGATAATGGAGAGCAGCAGAAAGGCCGTAGTAGTAAGAACAAAAGA	1775			
QY	2274 AAAAAGAAAGTCGCCCATGGAGCCGAGAGATCACAATGAGCCAAGCATACAGAAC	2333			
Db	1776 AAAAAGAAAGTCGCCCATGGAGCCGAGAGATCACAATGAGCCAAGCATACAGAAC	1835			
QY	2334 TGTGTGCTTGAATGTTAAACCATGGATTGACATGGACGGCAAAGTACGTAAAC	2393			
Db	1836 TGTGTGCTTGAATGTTAAACCATGGATTGACATGGACGGCAAAGTACGTAAAC	1895			
QY	2394 CGAAGTGTGAGCTTGATAGTGAAACAAGTCCGTATGACACAGGTTGCTCCATTCAAA	2453			
Db	1896 CGAAGTGTGAGCTTGATAGTGACAAAGTCCGTATGACACAGGTTGCTCCATTCAAA	1955			
QY	2454 GTGTGATGCCCGCCAGTGCACACTACAGTTCAAGGAATGTCTGACCTCAAA	2513			
Db	1956 GTGTGATGCCCGCCAGTGCACACTACAGTTCAAGGAATGTCTGACCTCAAA	2015			
QY	2514 AATATAGCCCTCTCTCAGTCTCTGAACCTACAGTTCAAGGAATGTCTGACCTCAAC	2573			
Db	2016 AATATAGCCCTCTCTCAGTCTCTGAACCTACAGTTCAAGGAATGTCTGACCTCAAC	2075			
QY	2574 AGGCAGAAATGATATGGAAATATCTTACCGGACATGGAGTTAAGACTTAA	2633			
Db	2076 AGGCAGAAATGATATGGAAATATCTTACCGGACATGGAGTTAAGACTTAA	2135			
QY	2634 AGGTGCCAACCAACTTGTGGTTATGAGGTTATGGCAGGACACAAAGGAAT	2693			
Db	2136 AGGTGCCAACCAACTTGTGGTTATGAGGTTATGGCAGGACACAAAGGAAT	2195			
QY	2754 TTGAGAGACTGGGAGGTGGCCATAAGGGCAGAGTCTCTCAGACCAACTCT	2813			
Db	2256 TTGAGAGACTGGGAGGTGGCCATAAGGGCAGAGTCTCTCAGACCAACTCT	2315			
QY	2814 TAGAGGCACATCACCAACCTTGCTGAACTTGCTCTGTGAACTTG	2753			
Db	2316 TAGAGGCACATCACCAACCTTGCTGAACTTGCTCTGTGAACTTG	2375			
	(INCY-) INCYTE GENOMICS INC.				
	XX Panzer SR, Lincoln SE, Altus CM, Dufour GE, Hillman JL, Jones AL;				
	PI Dam TC, Liu TF, Harris B, Flores V, Daffo A, Marwaha R, Chen AJ;				
	PI Chang SC, Gerstein EH, Peralta CH, David MH, Lewis SA;				
	XX WPI; 2002-590716/63.				
	DR P-PSDB; ABG69816.				
	XX New purified secretory polypeptides and polynucleotides, useful in the diagnosis, study, prevention or treatment of diseases associated with decreased expression of functional secretory molecules, e.g. AIDS, cancer or allergies -				
	PT PT PT				
	XX XX				

PS Claim 1; Page 247; 340pp; English.

XX

CC The invention describes an isolated polynucleotide a naturally occurring polynucleotide sequence at least 90 % identical to it, a polynucleotide complementary to it or an RNA equivalent of it. The purified secretory polypeptides (SPTM) and polynucleotides are useful in the diagnosis, study, prevention or treatment of diseases associated with decreased expression of functional SPTM, e.g. actinic keratosis, arteriosclerosis, bursitis, cirrhosis, hepatitis, polycythaemia vera, primary thrombocytopenia, anaemia, psoriasis, cancers including adenocarcinoma, leukaemia, myeloma or sarcoma, immune system disorder such as acquired immunodeficiency syndrome (AIDS), allergies, asthma, Crohn's disease, diabetes mellitus, glomerulonephritis, Goodpasture's syndrome, Hashimoto's thyroiditis, hepatitis, multiple sclerosis, osteoporosis, pancreatitis, Reiter's syndrome, autoimmune thyroiditis or rheumatoid arthritis, neurological disorders such as epilepsy, stroke, Alzheimer's disease, Pick's disease, Huntington's disease, dementia, Parkinson's disease, other developmental disorder of the central nervous system, mental disorder including mood, anxiety or schizophrenic disorder, amnesia or Tourette's disorder. The polynucleotides may be used in hybridisation and amplification technologies, e.g. in assessing gene expression patterns, to develop a transcript image for a particular cell or tissue, or to create transgenic animals to model human disease. This sequence encodes a human secretory protein isolated in the invention.

CC

CC

XX

SQ Sequence 719 BP; 223 A; 113 C; 188 G; 195 T; 0 other;

Query Match 23 2%; Score 717.4; DB 24; Length 719;

Best Local Similarity 99.9%; Pred. No. 7e-169; 0; Mismatches 1; Indels 0; Gaps 0;

Matches 718; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY

474 GGCGGGGGGGAGGGGGGGCGTGTATTCCGGTGGTCGGACAGTGCGTGGGGGGGGGGG 533

1 GCGGGGGGGGGAGGGGGGGCGTGTATTCCGGTGGTCGGACAGTGCGTGGGGGGGGGG 60

Db

534 GACCACGGAGAGTAGGCATAATGGTTATGAAAGCTCTGTAGATGAGCATTCAAG 593

61 GACCACGGAGAGTAGGCATAATGGTTATGAAAGCTCTGTAGATGAGCATTCAAG 120

Db

594 ATGGGGACCTCACTATGCCAGAAAAATGGAGAAAGCAATACAACCTGGGGACATTAC 653

121 ATGGGAGCTCACTATGCCAGAAAATGGAGAAAGCAATACAACCTGGGGACATTAC 180

QY

654 CCAAGATTGAAAGAGCTTGTGAGAATTAAAGTGGGAGAACTACTCATGATAAGCT 713

61 CCAAGATTGAAAGAGCTTGTGAGAATTAAAGTGGGAGAACTACTCATGATAAGCT 240

Db

714 ATTGGTCTTTGAAAGCCATGTCTGCTATTGAATGATGGATCCCAGATGGATCTGG 773

241 ATTGGTCTTTGAAAGCCATGTCTGCTATTGAATGATGGATCCCAGATGGATCTGG 300

Db

774 CATGATGGAAACCAAGTTAACCGAAAGTTCAATTGAAACAGCTATCAAGGATGG 833

301 CACTGATGGAAACCAAGTTAACCGAAAGTTCAATTGAAACAGCTATCAAGGATGG 360

QY

834 CACTATTAAATTAAGATCTCACCTGCTGAACTGATAGGGATTATGGATACATGTT 893

361 CACTATTAAATTAAGATCTCACCTGCTGAACTGATAGGGATTATGGATACATGTT 420

Db

894 TGTCTGTTGATAACGGGGCATCTGGACAGACAGTATTACGTGCT 953

421 TGCTGTTGATAACGGGGCATCTGGACAGACAGTATTACGTGCT 480

QY

954 TTACATTCATAATCCAGACTTATAGAAGATCTGTGCTATGAAAGGCTTTGCTCTGGGAAT 1013

481 TTACATTCATAATCCAGACTTATAGAAGATCTGTGCTATGAAAGGCTTTGCTCTGGGAAT 540

Db

1014 CTGAAATCTGTGACATTGCAACGGAAAGTAATAAGCTGTGTTTGAGAGGA 1073

541 CTGAAATCTGTGACATTGCAACGGAAAGTAATAAGCTGTGTTTGAGAGGA 600

QY

1074 AGATTTCACTGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGT 1133

Db

601 AGATTTCACTGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGT 660

QY 1134 TACAGGCATGCTAAAGATGTGGAGGATGACATGCAAAGAAGACTCGAA 1192

661 TACAGGCATGCTAAAGATGTGGGGATGACATGCAAAGAAGACTCGAA 719

Db

RESULT 6

ABX50281 ABX50281 standard; cDNA; 398 BP.

ID ABX50281;

AC ABX50281;

XX 25-FEB-2003 (first entry)

XX DE Bovine EST associated with lactation/muscle/fat deposition #210.

XX DE Bovine EST; expressed sequence tag; lactation; LMFD; genome mapping; gene identification; muscle deposition; fat deposition; gene analysis; cattle breeding.

XX KW Bovine; ss; EST; expressed sequence tag; lactation; LMFD; genome mapping; gene identification; muscle deposition; fat deposition; gene analysis; cattle breeding.

XX KW gene analysis; cattle breeding.

OS Bos Taurus.

XX PN US2002137160-A1.

XX PD 26-SEP-2002.

XX PP 26-OCT-2001; 2001US-0983965.

XX PR 17-DEC-1998; 98US-113678P.

PR 15-DEC-1999; 99US-0465231.

XX PA (BYAT/ BYATT J C.

PA (MATH/ MATHIALAGAN N.

PA (TAON/ TAO N.

PA (WARR/ WARREN W C.

XX PI Byatt JC, Mathialagan N, Tao N, Warren WC;

XX PR WPI; 2003-102386/09.

AX PT

PT Purified nucleic acid molecules, useful for genome mapping, gene identification and analysis, cattle breeding or preparation of constructs for cattle gene expression and genetically improved cattle -

XX PS Claim 2; SEQ ID NO 210; 38PP; English.

CC The invention relates to a purified nucleic acid molecule associated with lactation or muscle and fat deposition (designated LMFD), derived from cattle, and the LMFD nucleic acid can specifically hybridise to a second nucleic acid molecule comprising any of 5912 nucleotide sequences, appearing as ABX50072-ABX55983, or complements of them. Also included are: (1) a transformed cell having a nucleic acid comprising an LMFD nucleic acid linked to a promoter and a 3' non-translated sequence that functions in the cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of the mRNA molecule; and (2) determining a level or pattern of a marker nucleic acid (comprising any of the 5912 nucleic acid sequences or its complement or fragment) with a complementary nucleic acid molecule obtained from the bovine cell or tissue, where hybridisation between the marker nucleic acid and the complementary nucleic acid permits the detection of the molecule; and (b) detecting the level or pattern of the complementary nucleic acid, where the detection of the complementary nucleic acid is predictive of the level or pattern of the molecule.

CC The LMFD nucleic acid is used for determining a level or pattern of a molecule in a bovine cell or tissue. It is useful for genome mapping, gene identification and analysis, cattle breeding, preparation of constructs for use in cattle gene expression, or for genetically improving cattle. The present sequence is one of the 5912 bovine LMFD EST (expressed sequence tag) nucleic acids.

CC Note: The present sequence was not shown in the specification but was obtained in electronic format from the USPTO web site:

Tue Nov 25 09:35:51 2003

CC	seqdata.uspto.gov/sequence.html?DocID=20020137160.	PS	Claim 12; 56pp + Sequence Listing; 56pp; German.
XX		XX	This invention describes a novel method for determining the degree of
CC		CC	methylation of a particular cytosine in a motif 5'-CpG-3', present in a
CC		CC	genomic sample of DNA. The sample is treated chemically to convert
CC		CC	cytosine (C) but not methylated C, to uracil, then part of the genomic
CC		CC	DNA that contains the target C is amplified to form a labeled amplicon.
CC		CC	The amplicon is hybridised to two classes, each with at least one
CC		CC	member, of oligonucleotides and/or peptide-nucleic acid (PNA) oligomers
CC		CC	and the degree of hybridisation to both classes is determined from the
CC		CC	label on the amplicon. From the ratio of labels hybridised to the two
CC		CC	classes of oligomers, the degree of methylation is calculated. The method
CC		CC	is used: (i) for diagnosis and/or prognosis of side effects of
CC		CC	therapeutic drugs and of a wide range of diseases, e.g. cancer, disorders
CC		CC	of the central nervous, cardiovascular, gastrointestinal and respiratory
CC		CC	systems etc., particularly by detecting mutations or single nucleotide
CC		CC	polymorphisms (SNP's); and (ii) for differentiation of cell or tissue
CC		CC	types and for investigating cell differentiation. The method allows the
CC		CC	methylation status of many C residues to be determined simultaneously.
CC		CC	ABQ13410-ABQ54121 represent genomic DNA sequences used to illustrate the
CC		CC	method for determining the degree of cytosine methylation described in
CC		CC	the disclosure of the invention.
SQ	Sequence 799 BP; 118 A; 95 C; 297 G; 289 T; 0 other:	XX	
Query Match	11.1%; Score 343.8; DB 24; Length 799;	Query Match	11.3%; Score 350.8; DB 25; Length 398;
Best Local Similarity	83.5%; Pred. No. 1.7e-75;	Best Local Similarity	94.3%; Pred. No. 2.1e-77;
Matches	0; Mismatches 77; Indels 0; Gaps 0;	Matches	0; Mismatches 22; Indels 0; Gaps 0;
Db		Db	
QY	2538 CTGAACGTGATGGCAAGCTAGTACACTTCACAGGAAATAATTGGAAATA 2597	QY	2298 GCCGAGAGATACAATGAGCCAAGCATACAGTAACCGAAGTTGAGCTGATAGAAC
Db	253 CAGAACTGTATGGCAGCTAGTACACTTCACAGGAAATAATTGGAAATA 312	Db	13 GCGAGAGATACAATGAGCCAAGCATACAGTAACCGAAGTTGAGCTGATAGAAC
QY	2598 TTCTAACCCGGACCATGAGGTATAAGAAATTAAAGGTTGCCAACCAACTTGTGG 2657	QY	73 TGGGAGCTTGTGACATGGATGGCAAGTAGACCTTGTGG 72
Db	313 TCCCAAACCCAGACCATGAGGTCAATAAGATTAAAGGTTGCCAACCAACTTGTGG 372	Db	
QY	2658 TTATGAAGTTATTGGCAGGAGCAC 2683	QY	2418 AAGTTCGGTATGACACAGATTGCTCCATTCAACAGTGTGATGACCAACGAGTGC
Db	373 TTATGAAGTTATTGGCAGGAGCAC 398	Db	133 AAGTTGATATGAGCACAGATTGCTCCATTCAACAGTGTGATGACCAACGACAGTGC
RESULT 7		QY	2478 ACTACTTACAGTCAAGGAAATGCTGTGACCTCAATAATAATAGCCTCTCTCAGTCTC 2537
ABQ51658	ID ABQ51658 standard; DNA; 799 BP.	Db	193 ACTATCTGCAGTCAAGGAAATGCTGTGACCTCAATAATAATAGCCTCTCTCAGTCTC 252
XX		QY	193 ACTATCTGCAGTCAAGGAAATGCTGTGACCTCAATAATAATAGCCTCTCTCAGTCTC 252
AC	ABQ51658;	Db	
XX		QY	
DT	12-JUL-2002 (first entry)	Db	
XX	Oligonucleotide for detecting cytosine methylation SEQ ID NO 38249.	QY	
DE		Db	
XX		QY	
KW	Human; cytosine methylation; 5'-CpG-3'; uracil; cytosine; diagnosis; drug; side effect; cancer; central nervous system; cardiovascular; gastrointestinal; respiratory system; single nucleotide polymorphism; SNP; cell differentiation; ds.	Db	
KW		QY	
OS	Homo sapiens.	Db	
XX	WO200219632-A2.	QY	
PN		Db	
XX		QY	
PD	07-MAR-2002.	Db	
XX		QY	
PR	01-SEP-2001; 2001WO-EP10074.	Db	
XX		QY	
PR	01-SEP-2000; 2000DE-1043826.	Db	
XX		QY	
PR	05-SEP-2000; 2000DE-1044543.	Db	
XX		QY	
PA	(EPIG-) EPIGENOMICS AG.	Db	
XX		QY	
PI	Olek A, Piepenbrock C, Berlin K, Guetig D;	Db	
XX		QY	
DR	WPI; 2002-371829/40.	Db	
XX		QY	
XX	Determining the degree of cytosine methylation in genomic DNA, useful for diagnosis and prognosis, comprises selective hybridization of amplicons from chemically treated DNA.	Db	
XX		QY	

us-10-001-857-42.rng

Tue Nov 25 09:35:51 2003

CC	a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for:
CC	(a) assessing whether a patient is afflicted with prostate cancer;
CC	(b) monitoring the progression of prostate cancer in a patient;
CC	(c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;
CC	(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC	(e) selecting a composition for inhibiting prostate cancer in a patient;
CC	(f) assessing the prostate cell carcinogenic potential of a compound;
CC	(g) determining whether prostate cancer has metastasized in a patient;
CC	(h) assessing the aggressiveness or indolence of prostate cancer in a patient;
CC	(I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX	Sequence 439 BP; 113 A; 104 C; 110 G; 112 T; 0 other;
Query Match	Score 288.8; DB 23; Length 439;
Best Local Similarity	91.4%; Pred. No. 6.8e-62;
Matches	338; Conservative 0; Mismatches 7; Indels 25; Gaps 2;
Db	RESULT 10
ABV36125/C	ABV36125 standard; cDNA; 439 BP.
ID	ABV36125 standard; cDNA; 439 BP.
XX	ABV36125;
AC	ABV36125;
XX	16-SEP-2002 (first entry)
DE	Human prostate expression marker cDNA 36116.
XX	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
XX	pharmacogenomic marker; gene; ss.
OS	Homo sapiens.
XX	WO200160860-A2.
PD	23-AUG-2001.
XX	20-FEB-2001; 2001WO-US05171.
PF	
XX	17-FEB-2000; 2000US-183319P.
PR	16-MAR-2000; 2000US-189862P.
PR	25-MAY-2000; 2000US-207454P.
PR	09-JUN-2000; 2000US-211314P.
PR	18-JUL-2000; 2000US-219007P.
PR	13-DEC-2000; 2000US-255281P.
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX	PI Schlegel R, Endege WO, Monahan JE;
XX	DR WPI; 2001-662795/76.
XX	Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer -
PT	Claim 1; Page 7483; 11750pp; English.
XX	The invention relates to an isolated nucleic acid molecule (I) comprising

PR 25-MAY-2000; 2000US-207454P.
 PR 09-JUN-2000; 2000US-211314P.
 PR 18-JUL-2000; 2000US-219007P.
 PR 13-DEC-2000; 2000US-255281P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 PA PI Schlegel R, Endege WO, Monahan JE;
 XX DR WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, stage of prostate cancer for detecting presence of prostate cancer, -

XX Claim 1; Page 8947; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (1) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (1) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;
 CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a patient;
 CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX Sequence 439 BP; 113 A; 104 C; 110 G; 112 T; 0 other;

Query Match 9.3%; Score 288.8; DB 23; Length 439;
 Best Local Similarity 91.4%; Pred. No. 6.8e-62;
 Matches 338; Conservative 0; Mismatches 7; Indels 25; Gaps 2;

QY 1687 GATAACAAAGGTCTTGGACTCATCTCATGCAAGACATGGTGAAGATGCCATTGG 1746
 439 GATAACAAAGGTCTTGGACTCATCTCATGCAAGACATGGTGAAGATGCCATTGG 380

Db 1747 TCTTTGTCAGTCTCGAGTCTCGAGTCTCCCGAAGTGCTACCTATATAATCACCAGG 1806
 379 TCTTTGTCAG--TCCTCCGGTGTCCCGAAGTGCTACCTATATAATCACCAGG 322

Db 1807 CTAAAGGACTGTACTGCAGCTCTTGTTACTCACTGTGTGGCCATTCTGTAGTCTTATT 1866
 321 CTAAAGGACTGTACTGCAGCTCTTGTTACTCACTGTGTGGCCATTCTGTAGTCTTATT 262

QY 1867 AGATCCATGACATAACAGGGCTGACAGAGAGATAAGCTTGGTCATATTCTGAGGAAT 1926
 261 AGATCCATGACATAACAGGGCTGACAGAGAGATAAGCTTGGTCATATTCTGAGGAAT 202

Db 1927 TTGCCAACCTTCAGGATGAGTTATGACATTATTAAAGGCAGAGGTGATGC 1986
 201 TTGCCAACCTTCAGGAT-----AGGCAGAGGTGATGC 165

QY 1987 AGCGCTTCACACCATGCTGTAACAGGAACAGGAAACATTTGGCTTAGG 2045
 164 AGCGCTTCACACCATGCTGTAACAGGAACAGGAAACATTTGGCTTAGG 105

Db 2047 TACCTGGTC 2056
 104 TACCTGGCC 95

XX Sequence 799 BP; 122 A; 95 C; 262 G; 320 T; 0 other;

Query Match 8.9%; Score 274.2; DB 24; Length 799;
 Best Local Similarity 73.9%; Pred. No. 4.1e-58;
 Matches 348; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 86 CTGCTCGTCGTCGCTGCAACCACTAAAGGTCTACGCAAACCTCCACGGTTCTTCGCC 145
 Db 799 CTACTCGGTCGACTCGCAACCACTAAATCTACGCAAACCTCCACGGATTCTTCGCC 740

QY 146 TTCCGGTCACTTCTAAGAAATCCAGGGCAGGCCACTACCCAGGACTCCGAGGGTGAA 205
 Db 739 TTCCGGTCACTTCTAAGAAATCCAGGGCAGGCCACTACCCAGGACTCCGAGGGTGAA 680

QY 206 TCCGGGCTCCGGCTCTCCGGAAACGGCCACTACCCAGGACTCCGAGGGTGAA 265
 Db 679 TCCGAACCTCCGGCTCTCCGGAAACGGCCACTACCCAGGACTCCGAGGGTGAA 620

QY 266 AAAGATAACTCCGGCTCTCCGGATCGCTCTAATCTCGGAGAGAGAGGGGCCA 325
 AC ABQ51660;

RESULT 12
 ABQ51660/C
 ID ABQ51660 standard; DNA; 799 BP.
 XX ABQ51660;

(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PA XX WO200171042-A2.

XX PN

PI XX

XX PD 27-SEP-2001.

DR XX

XX WPI; 2001-662795/76.

PT Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer -

PT XX

XX

PS Claim 1; Page 1018; 11750pp; English.

XX

The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for:

(a) assessing whether a patient is afflicted with prostate cancer;

(b) monitoring the progression of prostate cancer in a patient;

(c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;

(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;

(e) selecting a composition for inhibiting prostate cancer in a patient;

(f) assessing the prostate cell carcinogenic potential of a compound;

(g) determining whether prostate cancer has metastasized in a patient;

(h) assessing the aggressiveness or indolence of prostate cancer in a patient;

(I) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX Sequence 303 BP; 81 A; 72 C; 77 G; 73 T; 0 other;

Query Match 7.4%; Score 230.2; DB 23; Length 303;

Best Local Similarity 89.7%; Pred. No. 2.5e-47;

Matches 279; Conservative 0; Mismatches 8; Indels 24; Gaps 2;

Db 1746 GTCTTTGTCAGATCCTCCGAGTGCTTCCCCCAAGTGCTACCTATAATAATCACAG 1805

Qy 303 GTCCTTTGTCAG-TCTCCGGTCTTCCCCCAAGTGCTACCTATAATAATCACAG 245

Db 1806 GCTAGGACTGTGACTGCCTTTGTTACTCACTGTGTGGCATTCCTGTAGTCATT 1865

Qy 244 GCTAAGGACTGTGACTGCCTTTGTTACTCACTGTGTGGCATTCCTGTAGTCATT 185

Db 1866 CAGATCCATGGACATAACAGGGCTGACAGAGAGATAAGCTTGGTCATATCTTGAGGA 1925

Qy 184 CAGATCCATGGACATAACAGGGCTGACAGAGAGATAAGCTTGGTCATATCTTGAGGA 125

Db 1926 TTGCCACCTTGAGGATGAGTTATGACATTATTATAGGCAGAGAAAGGTGATG 1985

Qy 124 TTGCCACCTTGAGGAT-----AGGCAGAGAGGTGATG 88

Db 1986 CAGCGCTCACACCAGCTGTTGAAACAGGAACCCCCAACGGCAACATTGGCTGTTAG 2045

Qy 87 CAGCGCTCACACCAGCTGTTGAAACAGGAACCCCACATTGGCTGTTAG 28

Db 2046 GTACCTGGGTC 2056

Qy 27 GTACCTGGGTC 17

RESULT 15

ABL07143

ID ABL07143 standard; cDNA; 2515 BP.

XX

AC ABL07143;

XX

DT 26-MAR-2002 (first entry)

XX Drosophila melanogaster expressed polynucleotide SEQ ID NO 15911.

XX Drosophila; developmental biology; cell signalling; insecticide; pharmaceutical; gene; ss.

XX Drosophila melanogaster.

XX

XX WO200171042-A2.

XX PN

XX

XX PD 27-SEP-2001.

XX

XX WPI; 2001-656860/75.

XX DR WPI; 2001-656860/75.

XX DP P-PSDB; ABB63040.

XX

XX New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -

XX

PS Claim 1; SEQ ID NO 15911; 21pp + Sequence Listing; English.

XX

CC The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB5737-ABB72072).

CC The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX

Sequence 2515 BP; 616 A; 715 C; 657 G; 527 T; 0 other;

Query Match 7.0%; Score 217; DB 23; Length 2515;

Best Local Similarity 47.8%; Pred. No. 1.4e-43;

Matches 1031; Conservative 0; Mismatches 1035; Indels 93; Gaps 10;

Db 639 CTGGGTGGACATACCCAAAGATTGAAAGAAGCTGTGAGAATTAAAGTGGAGAACT 698

Qy 350 CTGGGTGGACATACCAAGGAGTTCCACGATGCCTGCGGGAGCTGCAGCCGGGAAC 409

Db 699 ACTTCATGATAAGCTATTGGCTRTTGAGGCCATGTCTGCTATTGAAATTGATGGATCC 758

Qy 410 GGCCCAAGGATATGCTGTGGCTTGGCCATGTCAAGCCATCGGAGATCATGGACCC 469

Db 759 CAAGATGGATGCTGGCATATTGAAACAGGAAAGTTCATTCATTGGACA 818

Qy 470 CAAGATGGACGGCATGGCTCTGACAAAGCAGGATCTCCGGCCCTTTGAGGC 529

Db 819 AGCTATCAAGGATGGCACTATTAAATTAAAGATCTCACCTGGCTGAACCTGATAGGGAT 878

Qy 530 AGCCATTCGACGGGCCATCAACTGGACCATCTCACGGCCCTCCGAACATGGCAT 589

Db 879 TATGGATACATGTTTGCTGTTGATAACGGCAATTCACTGGCACAGAC 938

Qy 590 CTATGATGCTCTGTTCTGGCTGGCTGGAGGGCAACTCCATTGGACCAAGT 649

Db 939 AGTATTACGGCCTTACATTCATAATCCAGACTTATAGAAGATCCTGTATGAGGC 998

Qy 650 TCTTATTCACTGGCTCTACCTGCACGCTCCGGCACAGATCAAGGATAAGGGCTGGCGT 709

Db 999 TTTGCTCTGGGAATCTGAAATCTGTGACATTGCAAGGAAAGTAATAAGCTGC 1058

Db 710 CTCTCGCACTGGCTGCCAATCTCATCGTGGTCATCAAGAAATTATGGCGTGGCG 769

Db 1059 TGTTTGTGAGAGGATTTCAGTCAGTTATGGATTAAATGGCTAACAGTGT 1118

Qy 770 TGTCAGGAGGAGCTCCAGCTGTACAGGAATTCTGCTCTGGCTGAGAGAA 829

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

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OM nucleic - nucleic search, using sw model
Copyright (c) 1993 - 2003 Compugen Ltd.
Run on: November 24, 2003, 21:46:30 ; Search time 11138 Seconds
Sequence: 1 ttcttcacgaaactccagg.....atttcttgacaaaaaaaaaa 3096 (without alignments)
11371.539 Million cell updates/sec
Scoring table: IDENTITY_NUC
Gapext 10:0 , Gapext 1.0
Searched: 2888711 seqs, 20454813386 residues
Total number of hits satisfying chosen parameters: 5777422
Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 100%
Listing First 45 summaries

Result No.	Score	Query Match	Length	DB ID	Description
1	3096	100.0	3096	6 AX523454	AX523454 Sequence
2	2417.2	78.1	2488	6 AX537452	AX537452 Sequence
3	1838.4	59.4	10 AY102701	AY102701 Mus muscu	
4	1799.2	58.1	10 AF272892	AF272892 Rattus no	
5	1756.6	57.1	9 AK025266	AK025266 Homo sapi	
6	1264.8	40.9	2467	5 BC053286	BC053286 Danio rer
7	988	31.9	997	9 AK026296	AK026296 Homo sapi
8	885.4	28.6	1795	9 AK056059	AK056059 Homo sapi
9	717.4	23.2	719	6 AX664135	AX664135 Sequence
10	664.2	21.5	147876	2 AC102010	AC102010 Mus muscu
11	551.4	17.8	181864	9 AL353743	AL353743 Human DNA
12	398.4	12.9	160115	9 AL161447	AL161447 Human DNA
13	321.4	10.4	446	9 HSA334821	AJ334821 Homo sapi
14	299	9.7	743	9 HSA334413	AJ334413 Homo sapi
15	236.4	7.6	642	9 HSA331811	AJ331811 Homo sapi
16	236.4	7.6	742	9 HSA342329	AJ342329 Homo sapi
17	233.2	7.5	640	9 HSA342327	AJ342327 Homo sapi
18	233.2	7.5	652	9 HSA342327	AJ342327 Homo sapi
19	217	7.0	2537	3 AY050948	AY050948 Drosophil
20	207.6	6.7	2565	3 AY089452	AY089452 Drosophil
21	182	5.9	489	11 G63197	AL161456 Homo sapi
22	177.8	5.7	34935	9 AL161453	AL161453 Human DNA
23	177.6	5.7	111554	2 AC143812	AC143812 Macaca mu
24	155.8	5.0	113836	10 AL669837	AL669837 Mouse DNA
25	153.2	4.9	253611	2 AC111473	AC111473 Rattus no
26	153.2	4.9	271861	2 AC108541	AC108541 Rattus no
27	153.2	4.9	281804	2 AC134869	AC134869 Mus muscu
28	153.2	4.9	281804	2 AC134869	AC134869 Mus muscu
29	140.4	4.5	151	6 AX523453	AX523453 Sequence
30	134.4	4.3	204131	2 AC128898	AC128898 Rattus no
31	130.4	4.2	3497	10 AY102702	AY102702 Mus muscu
32	130.4	4.2	269131	2 AC135469	AC135469 Mus muscu
33	90.6	2.9	160116	2 AC020508	AC020508 Drosophil
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40	66.6	2.2	110737	2 AC011105	AC011105 Homo sapi
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ALIGNMENTS

RESULT 1
AX523454
LOCUS AX523454 Sequence 42 from Patent WO02064788.
DEFINITION AX523454
ACCESSION AX523454.1 GI:24412350
VERSION
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Macina,R.A., Recipon,H., Chen,S.Y., Sun,Y. and Liu,C.
Compositions and methods relating to lung specific genes and
proteins

QY	1 981 TGATGCAGCGCTTCACACCATGCTGTGAAACAGGAACCCAAAGGAAACATTGCCCTG Db 1981 TGATGCAGCGCTTCACACCATGCTGTGAAACAGGAACCCAAAGGAAACATTGCCCTG	2040 2100 2160 2220 2280 2340 2400 2460 2520 2580 2640 2700 2760 2820 2880 2940 3000 3060
		Db 3061 TTATAAGGTTAATAATTCTTGACAAAAAAA 3096 RESULT 2 AX537452 LOCUS AX537452 DEFINITION Sequence 23 from Patent WO02070709. VERSION AX537452.1 KEYWORDS SOURCE Homo sapiens (human) ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 AUTHORS Lal, P.G., Baughn, M.R., Yao, M.G., Walia, N.K., Elliot, V.S., Xu, Y., Honchell, C.D., Yue, H., Ding, L., Gietzen, K.J., Ison, C.H., Lu, D.A., Hafalia, A.J., Ghandi, A.R., Thangavelu, K., Sanjanwala, M.M., Tang, Y.T., Ramkumar, J., Griffin, J.A., Swarnaker, A., Azimzai, Y., Sapperstein, S.K., Burford, N., Lee, E.A., Lu, Y., Tran, U.K. and Marquis, J.P. TITLE Molecules for disease detection and treatment JOURNAL Patent: WO 02070709-A 23 12-SEP-2002; Db 2161 ATTCTTACGCATGGTGTGATGTCACATTGAGTCGGATGGCTCAATGGCAGA 2220 QY 2221 GGAAGGATAATGGAGAGCAGCAGAAAGCCGTAGTAGTAAAAAACAAAGAAAAA 2280 Db 2221 GGAAGGATAATGGAGAGCAGCAGAAAGCCGTAGTAGTAAAAAACAAAGAAAAA 2280 QY 2281 GAAAGTGCCTCATGAGCCGAGAGATCACATGGCCAAGCATGGCAGAATGGTGTG Db 2281 GAAAGTGCCTCATGAGCCGAGAGATCACATGGCAGAATGGCAGAATGGTGTG 2340 QY 2341 TGGAAATGTTAACCATGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT Db 2341 TGGAAATGTTAACCATGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT 2400 QY 2401 TGAGCTGTAGTGAACAGTTGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGGAGT Db 2401 TGAGCTGTAGTGAACAGTTGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT 2460 QY 2461 GACCCCGCCGCACTTACAGTCAAGGAATGTCACCTAATAG Db 2461 GACCCCGCCGCACTTACAGTCAAGGAATGTCACCTAATAG 2520 QY 2521 CCCTCCTCTCAGTCTCTGAACTGTGGCAGCTAGTAAGCACTTCAACAGGCAA Db 2521 CCCTCCTCTCAGTCTCTGAACTTACAGTCAAGGAATGTCACCTAATAG 2580 QY 2581 ATGATATGGAAATTCCTAACCGGACCATGAGGTAAATAGAATTAAAGGTGC Db 2581 ATGATATGGAAATTCCTAACCGGACCATGAGGTAAATAGAATTAAAGGTGC 2640 QY 2641 CAACCCAACTTGTGGTATGAAGTTAGGTTATGAAAGTTAAGGTGC Db 2641 CAACCCAACTTGTGGTATGAAGTTAGGTTATGAAAGCTTAAAGGTGC 2700 QY 2701 TCCTCTGTGATTCTCTGTCTCATATAATTTCCTGTGAAACTGTGTTGAGA Db 2701 TCCTCTGTGATTCTCTGTCTCATATAATTTCCTGTGAAACTGTGTTGAGA 2760 QY 2761 GAGACTGGGAGGTGGCATAAAGGGCAGAGTCTCTTCAGACCCAACTCTAGGG Db 2761 GAGACTGGGAGGTGGCATAAAGGGCAGAGTCTCTTCAGACCCAACTCTAGGG 2820 QY 2821 CACATCACCAAGGCTCCACATCACGGGAAGTGGATGTCAGACCTTACCT Db 2821 CACATCACCAAGGCTCCACATCACGGGAAGTGGATGTCAGACCTTACCT 2880 QY 2881 TAGGAATCTTTAGTTGACACCTTATGACATGAATGAAACTGCTTTAAG Db 2881 TAGGAATCTTTAGTTGACACCTTACAGGAAACTGGTCTTACCTCATTA 2880 QY 2941 TGGTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG Db 2941 TGGTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG 2940 QY 3001 GGTTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG Db 3001 GGTTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG 3060 QY 3061 TTATAAGGTTAATAATTCTTGACAAAAAAA 3096
		Db 3061 TTATAAGGTTAATAATTCTTGACAAAAAAA 3096 RESULT 2 AX537452 LOCUS AX537452 DEFINITION Sequence 23 from Patent WO02070709. VERSION AX537452.1 KEYWORDS SOURCE Homo sapiens (human) ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 AUTHORS Lal, P.G., Baughn, M.R., Yao, M.G., Walia, N.K., Elliot, V.S., Xu, Y., Honchell, C.D., Yue, H., Ding, L., Gietzen, K.J., Ison, C.H., Lu, D.A., Hafalia, A.J., Ghandi, A.R., Thangavelu, K., Sanjanwala, M.M., Tang, Y.T., Ramkumar, J., Griffin, J.A., Swarnaker, A., Azimzai, Y., Sapperstein, S.K., Burford, N., Lee, E.A., Lu, Y., Tran, U.K. and Marquis, J.P. TITLE Molecules for disease detection and treatment JOURNAL Patent: WO 02070709-A 23 12-SEP-2002; Db 2161 ATTCTTACGCATGGTGTGATGTCACATTGAGTCGGATGGCTCAATGGCAGA 2220 QY 2221 GGAAGGATAATGGAGAGCAGCAGAAAGCCGTAGTAGTAAAAAACAAAGAAAAA 2280 Db 2221 GGAAGGATAATGGAGAGCAGCAGAAAGCCGTAGTAGTAAAAAACAAAGAAAAA 2280 QY 2281 GAAAGTGCCTCATGAGCCGAGAGATCACATGGCCAAGCATGGCAGAATGGTGTG Db 2281 GAAAGTGCCTCATGAGCCGAGAGATCACATGGCAGAATGGCAGAATGGTGTG 2340 QY 2341 TGGAAATGTTAACCATGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT Db 2341 TGGAAATGTTAACCATGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT 2400 QY 2401 TGAGCTGTAGTGAACAGTTGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGGAGT Db 2401 TGAGCTGTAGTGAACAGTTGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT 2460 QY 2461 GACCCCGCCGCACTTACAGTCAAGGAATGTCACCTAATAG Db 2461 GACCCCGCCGCACTTACAGTCAAGGAATGTCACCTAATAG 2520 QY 2521 CCCTCCTCTCAGTCTCTGAACTGTGGCAGCTAGTAAGCACTTCAACAGGCAA Db 2521 CCCTCCTCTCAGTCTCTGAACTTACAGTCAAGGAATGTCACCTAATAG 2580 QY 2581 ATGATATGGAAATTCCTAACCGGACCATGAGGTAAATAGAATTAAAGGTGC Db 2581 ATGATATGGAAATTCCTAACCGGACCATGAGGTAAATAGAATTAAAGGTGC 2640 QY 2641 CAACCCAACTTGTGGTATGAAGTTAGGTTATGAAAGTTAAGGTGC Db 2641 CAACCCAACTTGTGGTATGAAGTTAGGTTATGAAAGCTTAAAGGTGC 2700 QY 2701 TCCTCTGTGATTCTCTGTCTCATATAATTTCCTGTGAAACTGTGTTGAGA Db 2701 TCCTCTGTGATTCTCTGTCTCATATAATTTCCTGTGAAACTGTGTTGAGA 2760 QY 2761 GAGACTGGGAGGTGGCATAAAGGGCAGAGTCTCTTCAGACCCAACTCTAGGG Db 2761 GAGACTGGGAGGTGGCATAAAGGGCAGAGTCTCTTCAGACCCAACTCTAGGG 2820 QY 2821 CACATCACCAAGGCTCCACATCACGGGAAGTGGATGTCAGACCTTACCT Db 2821 CACATCACCAAGGCTCCACATCACGGGAAGTGGATGTCAGACCTTACCT 2880 QY 2881 TAGGAATCTTTAGTTGACACCTTATGACATGAATGAAACTGCTTTAAG Db 2881 TAGGAATCTTTAGTTGACACCTTACAGGAAACTGGTCTTACCTCATTA 2880 QY 2941 TGGTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG Db 2941 TGGTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG 2940 QY 3001 GGTTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG Db 3001 GGTTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG 3060 QY 3061 TTATAAGGTTAATAATTCTTGACAAAAAAA 3096
		Db 3061 TTATAAGGTTAATAATTCTTGACAAAAAAA 3096 RESULT 2 AX537452 LOCUS AX537452 DEFINITION Sequence 23 from Patent WO02070709. VERSION AX537452.1 KEYWORDS SOURCE Homo sapiens (human) ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 AUTHORS Lal, P.G., Baughn, M.R., Yao, M.G., Walia, N.K., Elliot, V.S., Xu, Y., Honchell, C.D., Yue, H., Ding, L., Gietzen, K.J., Ison, C.H., Lu, D.A., Hafalia, A.J., Ghandi, A.R., Thangavelu, K., Sanjanwala, M.M., Tang, Y.T., Ramkumar, J., Griffin, J.A., Swarnaker, A., Azimzai, Y., Sapperstein, S.K., Burford, N., Lee, E.A., Lu, Y., Tran, U.K. and Marquis, J.P. TITLE Molecules for disease detection and treatment JOURNAL Patent: WO 02070709-A 23 12-SEP-2002; Db 2161 ATTCTTACGCATGGTGTGATGTCACATTGAGTCGGATGGCTCAATGGCAGA 2220 QY 2221 GGAAGGATAATGGAGAGCAGCAGAAAGCCGTAGTAGTAAAAAACAAAGAAAAA 2280 Db 2221 GGAAGGATAATGGAGAGCAGCAGAAAGCCGTAGTAGTAAAAAACAAAGAAAAA 2280 QY 2281 GAAAGTGCCTCATGAGCCGAGAGATCACATGGCCAAGCATGGCAGAATGGTGTG Db 2281 GAAAGTGCCTCATGAGCCGAGAGATCACATGGCCAAGCATGGCAGAATGGTGTG 2340 QY 2341 TGGAAATGTTAACCATGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT Db 2341 TGGAAATGTTAACCATGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT 2400 QY 2401 TGAGCTGTAGTGAACAGTTGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGGAGT Db 2401 TGAGCTGTAGTGAACAGTTGGTAGCATTTGACATGGACAGGTTGCTCCATCAACAGTGTGAT 2460 QY 2461 GACCCCGCCGCACTTACAGTCAAGGAATGTCACCTAATAG Db 2461 GACCCCGCCGCACTTACAGTCAAGGAATGTCACCTAATAG 2520 QY 2521 CCCTCCTCTCAGTCTCTGAACTGTGGCAGCTAGTAAGCACTTCAACAGGCAA Db 2521 CCCTCCTCTCAGTCTCTGAACTTACAGTCAAGGAATGTCACCTAATAG 2580 QY 2581 ATGATATGGAAATTCCTAACCGGACCATGAGGTAAATAGAATTAAAGGTGC Db 2581 ATGATATGGAAATTCCTAACCGGACCATGAGGTAAATAGAATTAAAGGTGC 2640 QY 2641 CAACCCAACTTGTGGTATGAAGTTAGGTTATGAAAGTTAAGGTGC Db 2641 CAACCCAACTTGTGGTATGAAGTTAGGTTATGAAAGCTTAAAGGTGC 2700 QY 2701 TCCTCTGTGATTCTCTGTCTCATATAATTTCCTGTGAAACTGTGTTGAGA Db 2701 TCCTCTGTGATTCTCTGTCTCATATAATTTCCTGTGAAACTGTGTTGAGA 2760 QY 2761 GAGACTGGGAGGTGGCATAAAGGGCAGAGTCTCTTCAGACCCAACTCTAGGG Db 2761 GAGACTGGGAGGTGGCATAAAGGGCAGAGTCTCTTCAGACCCAACTCTAGGG 2820 QY 2821 CACATCACCAAGGCTCCACATCACGGGAAGTGGATGTCAGACCTTACCT Db 2821 CACATCACCAAGGCTCCACATCACGGGAAGTGGATGTCAGACCTTACCT 2880 QY 2881 TAGGAATCTTTAGTTGACACCTTATGACATGAATGAAACTGCTTTAAG Db 2881 TAGGAATCTTTAGTTGACACCTTACAGGAAACTGGTCTTACCTCATTA 2880 QY 2941 TGGTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG Db 2941 TGGTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG 2940 QY 3001 GGTTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG Db 3001 GGTTTTACAGATTAAATCACAAATCATTTTATGATGATGAAACTGGTCTTAAAG 3060 QY 3061 TTATAAGGTTAATAATTCTTGACAAAAAAA 3096

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QY	1074	AGATTTCACTGAACTGACTTATGGATTAATGGCTAACAGTGTGACAGATCTTCGAGT	1133	QY	2154	TCTCTGAATTCTTACCGATGGTGTGTCACATGAGTCGGCTCTCAA	2213
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QY	1134	TACAGGCATGCTAAAGTAGTGGAGGATGACATGCAAGAAGAGTAAGAGTACTCGAAG	1193	QY	2214	TGGCAGAGGAAGGATAATGGAGAGCAGCAGAAAGGCCGTAGTAGTAAAGAACAGA	2273
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		ACCESSION	ACCESSION	AY102701			
		VERSION	VERSION	AY102701.1	GI:21539895		
		KEYWORDS	KEYWORDS				
		SOURCE	SOURCE	Mus musculus (house mouse)			
		ORGANISM	ORGANISM	Mus musculus			
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
		Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.					
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REFERENCE	1 (bases 1 to 2552)	QY	1021 ATCTGTGACATTGCAAGGGAAAGTAATAAAGCTGCTGTTTGAAGAGGAAGATT 1080
AUTHORS	Wenzlau, J.M. and Weiser-Evans, M.C.M.	Db	ATCTGGCACATTGACCGGGAAAGTAATAAAGCTGCTGTTTGAAGAGGAAGATT 579
TITLE	Mouse Embryonic Growth Associated Protein (EGAP)	QY	520 ATCTGGCACATTGACCGGGAAAGTAATAAAGCTGCTGTTTGAAGAGGAAGATT 579
JOURNAL	Unpublished	Db	1081 CAGTCATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACAGGC 1140
AUTHORS	Wenzlau, J.M. and Weiser-Evans, M.C.M.	QY	580 CAGTCATGACATACGGATTAAATGGCCAACAGTGTGACAGATCTCGAGTTACAGGC 639
TITLE	Direct Submission	Db	1141 ATGCTAAAGATGGAGGATGACATGCCAACAGTGTGACAGATCTCGAGTTACAGGC 1200
JOURNAL	Submitted (13-MAY-2002) Pediatrics, University of Colorado HSC, 4200 East Ninth Ave, Denver, CO 80262, USA	QY	640 ATGCTAAAGATGGAGGATGACATGCCAACAGTGTGACAGATCTCGAGTTACAGGC 699
FEATURES	Location/Qualifiers	Db	640 ATGCTAAAGATGGAGGATGACATGCCAACAGTGTGACAGATCTCGAGTTACAGGC 699
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/db_xref="GI:21539896"	/translation="MVKATVDDASGWELGVPEKMEKSSTSWDITODFEDACRELK	Db	820 AGTGCTGTGCAGAGGCTCAGAACTGATGGTCCAGGGCAGACCTCTCTGCCATT 879
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BASE COUNT	740 a 542 c 619 g 651 t	QY	1561 ATAATAAACTGTGTGAGGTGTGAATTACAATAATTACATGTATCCGGATTTC 1620
ORIGIN		Db	1060 ATAATAAACTGTGTGAGGTGTGAACTTACCAACTTACACTGTATCCGGATTTC 1119
Query Match	59.4%; Score 1838.4; DB 10; Length 2552;	Db	1060 ATAATAAACTGTGTGAGGTGTGAACTTACCAACTTACACTGTATCCGGATTTC 1119
Best Local Similarity	84.4%; Pred. No. 0;	QY	1621 TGTGAAATTAGTGAACAGTCACCATGTGTCTTCAAGATCTCTGTTACAAACACTTC 1680
Matches	2160; Conservative	QY	1621 TGTGAAATTAGTGAACAGTCACCATGTGTCTTCAAGATCTCTGTTACAAACACTTC 1680
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40 GGCAGGGACGGCATCATGGTTAGAACGCTACTGTAGACGACGATGGTGGAG	99	QY	1681 CTGGTGGATAACAAAGGGCTTGGACTCATCTCATGCAAGACATGGTAAGATGCA 1740
601 CTCAGTATGCCAGAAAATGGAAAGCAATAACACTGGTGGACATTACCAAGAT	660	Db	1180 CTGGGGATAACAAAGGTCTTGGACTCATCTCATGCAAGACATGGTAAGATGCT 1239
100 CTCGGGTCCCCGAAAAATGGAAAGTAGCACAAGCTGGGGACATAACCCAGGT	159	QY	1741 CTCGGGTCTTGTCAAGATCCCTCGAGGTCTTCCCAGGACTCATCTCATGCAAGACATGGTAAGATGCT 1357
661 TTGAGAAGACTGTGTGAGAATTAAAGTGGAGAACTACTTCATGATAAGCTATTG	720	Db	1240 CTGGGGCTCTCGTCAG-TCTCCGGCTCTCCCCAAGTGTGCCTATAATGTC 1297
160 TTGAGAATGCTGTGAGACTGCTCATGATAAGCTT 219		QY	1801 ACCAGGCTAAGGACTGTGACTCCCTGTTACTCACTGTGTTGGCATTCTG 1860
721 CTTTTGAGCCATGTCGTCTATGAAATTGATGGATCCAGATGGATGCTGGCATGATT	780	Db	1861 ACCAGGCTAAGGACTGTGACTCCCTGTTACTCACTGTGTTGGCATTCTG 1860
220 CTTTTGAGCCATGTCGTCTATGAAATTGATGGATCCAGATGGATGCTGGCATGATT	279	QY	1358 ACCAGGCTAAGGACTGTGACTCCCTGTTACTCACTGTGTTGGCATTCTG 1417
781 GGAACCAAGTTAATCGAAAGTCTCAATTGAAACAGCTATCAAGGATGGCACTT	840	Db	1298 ACCAGGCTAAGGACTGTGACTCCCTGTTACTCACTGTGTTGGCATTCTG 1417
280 GGGAAACCAAGTGAATAGAAAATGTCATTGAAACAGCTATCAAGGATGGCACTT	339	QY	1861 TTATCAGATCCATGGACATAACGGGCTCGACAGACAGATAAGCTGTGATATCTG 1920
841 AAAATTAAGAGATCTCACCTGCTGACTGATAGGGATTAGGATACATGTTTGTGCTG	900	Db	1358 TTGTCAGATCCATGGCCTAACAGGGCTCGACAGACAGACAAGCTGTGTTGGCATTCTG 1417
QY	340 AABATTAAGACCTCAGCTGCTGACTGATGGATATGGACACCTGGCACTT	QY	1921 AGGAATTGCCACCTGCGAGTTATGACATTTTAAATAGGCAGAGAGGT 1980
Db	901 TTGATAACGGGTTAGAAGGCCATTCACTGGCACAGACAGATTACGTGCTTACATT	Db	1418 AGGAGTTGCTACCTGCAAGATG 1454
QY	400 TTGATCACATGGCTGAGGCCATTCTGTCAGACAGACTGTGTTACGTGCTTACATT	QY	1455 TGATGCAGGCCTCATACTATGTTGAAACAGGACCTCAGAGAACATCTGGCCTG 1514
Db	961 CATAATCCAGACTTATAGAAGAGTCTGCTATGAAAGGCTTGTGCTCTGGAACTCTGAA	Db	2040 1515 CTTAGGAACCTGGGTCTTACCATTAACCTCCGGATTATGATCCAGTATCTGTCAGTGG 1574
QY	460 CATAATCCGGACTTCATAGAAGATCCTGGCAAGCTTGTGAACTCTGGAATCTGAA	QY	2101 CTTGAATTGGAACCTACAGTACAGTACATTACATATGGTATCTCTGCA 2160

ACCESSION	AF272892	VERSION	AF272892.1	GI	8926319
KEYWORDS	Rattus norvegicus (Norway rat)	SOURCE	Rattus norvegicus	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
QY	1 (bases 1 to 2543)	REFERENCE	1 (bases 1 to 2543)	Yi, X.J., Li, X.F. and Yu, F.S.	A novel epithelial wound-related gene is abundantly expressed in developing rat cornea and skin
Db	1695 GGAGAGGATCATGGAGGAACAGCAGAAAGGCCAGCGAACAAAGAAGAAA 1694	AUTHORS	Li, X. and Yu, F.	Curr. Eye Res. 20 (5), 430-440 (2000)	20314365
QY	2221 GGAAGGATAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAAAGAAAAAA 2280	JOURNAL	Direct Submission	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	10855038
Db	1755 GAAGGTTCGTCGCTTGAGGAGATCACATGAGCCAGGCACAGCAAAACAAGAAGAAA 1754	TITLE	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	2281 GAAAGTCCGCCATTGAGCGAGAGTACAATGAGCCAAGCATATCAGAACATGTGTC 2340	FEATURES	Location/Qualifiers	/organism="Rattus norvegicus"	2 (bases 1 to 2543)
Db	1755 GAAGGTTCGTCGCTTGAGGAGATCACATGAGCCAGGCACAGCAAAACAAGAAGAAA 1754	PUBMED	2. . 2543	/mol_type="mRNA"	Li, X. and Yu, F.
QY	2341 TGGAGTTAAACCATGGTAGCATTGACATGGCAAGTACGTAACGGAAAGTT 2400	AUTHORS	Li, X. and Yu, F.	/db_xref="taxon:10116"	Db
Db	1815 TGGAGTTCAAGACGATGGTCGCTTGTGACATGGATGGCAAGGCCAAAGTT 1874	JOURNAL	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	2401 TGAGCTGATAGTGAACAAAGTCGGTATGAAACACAGGTTGCTCCATTCAACAGTGTGAT 2460	FEATURES	Location/Qualifiers	/codon_start=1	1 (bases 1 to 2543)
Db	1875 TGAGCTGACAGTGAGCAGGTCCGGTATGAGCACAGGTTGCACCGTTCAACAGTGTGAT 1934	PUBMED	2 (bases 1 to 2543)	/product="corneal wound healing related protein"	Li, X. and Yu, F.
QY	2461 GACCCGGCCAGTCGACTTACAGTTCAAGGAATGTCTCAATAATAG 2520	AUTHORS	Li, X. and Yu, F.	/protein_id="AAF81791.1"	Db
Db	1935 GACCCGGCACCGTCACTACCTCGAGGAAATGTCTCAATAATAG 1994	JOURNAL	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	2521 CCCTCCTCTCAGTCTCTGAACACTACAGTTCAACGGCAA 2580	FEATURES	Location/Qualifiers	/db_xref="GI:8926320"	1 (bases 1 to 2543)
Db	1995 CCCTCCTCTCAGTCTCAGGCTATGTGGCAGCTAGTAAGCACTTCAGCAGACAA 2054	PUBMED	2 (bases 1 to 2543)	/translation="MMKAADVDDASGWELNVPEKMEKSSTSWDITODFEDACRELKLGELLHDKLFLGLFEAMSIAEMDPKMDPMAGMIGNQNVRKVLFNEQAVKDGTIKIDSLPELIGIMDTFCCLITWLEGHSLAQTVFTCLYIHNPDFIEDPAMKALGILKICDIAREVKVKAFAEEEDFQSMTYGFRMANGVTDLRVTGMLKDVEDDMQRVRKSTRSRQEEETRDPEVELEHQQLAASFCSRVKFTRVLVLIIFTKKETSVAEAQKLMQADLLSAITHTSIHGGIQAONGTICKGDHPIMMGFERPVNQLRLLPTFPYAKIIRKREEMNYFSRLIDVRIKVCEVNLPLNHCILDFFCFERSEQSPCVLSRSLLQTTFLVDNKKVFGTHLMDMVRIKLVPPFHQLQEMSDLSKYSPPPQPPPELYVAASCHFOQAKMILESIIPNADEVSRRQYDPEVLEHQQCLAAFSRVRKFKRPFKELDSEQVRYEHRFAPENQYDPEVLEHQQCLAAFSRVRKFKRPFKELDSEQVRYEHRFAPEN	Li, X. and Yu, F.
QY	2581 AATGATATTGGAATATTCTAACCGGACATGAGGTTAATAGAATTAAAGTTAAGGTG 2640	FEATURES	Location/Qualifiers	/db_xref="taxon:10116"	1 (bases 1 to 2543)
Db	2055 AATGATCTGAAATATCCTAACCGGACATGAGGTTAATAGAATTAAAGTTAAGGTG 2114	PUBMED	2 (bases 1 to 2543)	/codon_start=1	1 (bases 1 to 2543)
QY	2641 CAAACCCAACTTGTGGTTATGAAGTTATGGCAGGACACAAAGGAATCTAAGT 2700	AUTHORS	Li, X. and Yu, F.	/product="corneal wound healing related protein"	Li, X. and Yu, F.
Db	2115 CAAGCCCAACTTGTGGTTATGAAGCTCTAGGACACAAAGAAGTCAAAGT 2174	JOURNAL	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	2701 TCCTCCTGAATTGATTCTCTGCTCATAAATATTTCTGTGTGAACACTGTGAGA 2760	FEATURES	Location/Qualifiers	/protein_id="AAF81791.1"	1 (bases 1 to 2543)
Db	2175 TCCTCCGAATTGACTCTCTGTGTCACAATATTTCTGTGTGAACACTGGTTGAA 2234	PUBMED	2 (bases 1 to 2543)	/db_xref="GI:8926320"	Li, X. and Yu, F.
QY	2761 GAGACTGGGGCATAAAGGGCAGAGTCTCTCAGACCCAACTCTAGACGG 2820	AUTHORS	Li, X. and Yu, F.	/translation="MMKAADVDDASGWELNVPEKMEKSSTSWDITODFEDACRELKLGELLHDKLFLGLFEAMSIAEMDPKMDPMAGMIGNQNVRKVLFNEQAVKDGTIKIDSLPELIGIMDTFCCLITWLEGHSLAQTVFTCLYIHNPDFIEDPAMKALGILKICDIAREVKVKAFAEEEDFQSMTYGFRMANGVTDLRVTGMLKDVEDDMQRVRKSTRSRQEEETRDPEVELEHQQLAASFCSRVKFTRVLVLIIFTKKETSVAEAQKLMQADLLSAITHTSIHGGIQAONGTICKGDHPIMMGFERPVNQLRLLPTFPYAKIIRKREEMNYFSRLIDVRIKVCEVNLPLNHCILDFFCFERSEQSPCVLSRSLLQTTFLVDNKKVFGTHLMDMVRIKLVPPFHQLQEMSDLSKYSPPPQPPPELYVAASCHFOQAKMILESIIPNADEVSRRQYDPEVLEHQQCLAAFSRVRKFKRPFKELDSEQVRYEHRFAPENQYDPEVLEHQQCLAAFSRVRKFKRPFKELDSEQVRYEHRFAPEN	1 (bases 1 to 2543)
Db	2235 GAGACTGCAAAGATGACCGTGTCCACTC-----TAGGAA 2269	JOURNAL	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	2821 CACATCACCAGGCTCCACATCAGG-----GGAAGTGTGATTCTGGGTAAACACTCAT 2878	FEATURES	Location/Qualifiers	/codon_start=1	1 (bases 1 to 2543)
Db	2270 GACATCAGTCTGCCACACATGGTACAGAAAGTGGATCTCTGGATGACAGACAGCTGC 2329	PUBMED	2 (bases 1 to 2543)	/product="corneal wound healing related protein"	Li, X. and Yu, F.
QY	2879 TATAAGGAATACTTTAGTTGACAGCCTTATATGACATGAATGAAACTGCTGTTAA 2938	AUTHORS	Li, X. and Yu, F.	/protein_id="AAF81791.1"	1 (bases 1 to 2543)
Db	2330 TACAGGAAGACTTTCACTTACACACCTTACAGACAGCTGC 2389	JOURNAL	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	2939 AGTGGTTATTATGTTCCATGGAAACTGGTCTTATTGAATGCACTGAACTGTTAA 2998	FEATURES	Location/Qualifiers	/codon_start=1	1 (bases 1 to 2543)
Db	2390 AGTGGTTATTATGTTCCATGGAAACTGGTCTTATTGAATGCACTGAACTGTTAA 2445	PUBMED	2 (bases 1 to 2543)	/product="corneal wound healing related protein"	Li, X. and Yu, F.
QY	2999 ATGGTTATTACAGATTAATCACAAATCATTGTTATGAATGATTGACTGAATAGT 3058	AUTHORS	Li, X. and Yu, F.	/protein_id="AAF81791.1"	1 (bases 1 to 2543)
Db	2446 ATGGTTATTACAGACTTAATTGTTAATGAATGATTGACTGAATAGT 2504	JOURNAL	Submitted (26-MAY-2000) The Schepens Eye Research, 20 Staniford Street, Boston, MA 02114, USA	Source	1. . 2543
QY	3059 GTTTATAAGGTTAATAATTCTGTGACAAAAAA 3096	FEATURES	Location/Qualifiers	/codon_start=1	1 (bases 1 to 2543)
Db	2505 GTTTGTAAGGTTAATAATTCTGTGACAAAAAA 2542	PUBMED	2 (bases 1 to 2543)	/product="corneal wound healing related protein"	Li, X. and Yu, F.
RESULT 4					
LOCUS	AF272892	2543 bp	mRNA	linear	ROD 15-SEP-2000
DEFINITION	Rattus norvegicus corneal wound healing related protein mRNA,	complete cds.			
AF272892					

QY	910	TGGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATTATAATCCA	969	QY	1990	GCTTCACCATGCTGTGAACAGAACCCAAAGGCAACATTGGCCTTTAGGTAC	2049
Db	418	TGGCTCGAAGGCCATTCCCTGGCACAGACGGTATTACATGCCATTACATCAA	477	Db	1473		1473
QY	970	GACTTATAGAAGATCCTGCTATGAGGCTTGTCTGGAACTTGAAATCTGTGAC	1029	QY	2050	CTGGGTCTTACCATACCTTCGCATTATGATACAGTACCTCTTAAGTGGCTTGAAATT	2109
Db	478	GACTTCATAGAAGACCTGCGATGAAAGCTTGTGAGATCTGTGAC	537	Db	1533	TRGGGTCTCTACACAGCCTGCGGATTATGATCCAGTACCTGCTCAGGCGCTTGTGATCT	1592
QY	1030	ATTCGAAGGAAAGTAATAAGCTGCTGTTGAAGAGGAAGATTTCAGTCATG	1089	QY	2110	GGAACCTACAGTGCACGGTACTATACATATATTGGTATCTCTTGAAATTCTTA	2169
Db	538	ATTCGAAGGAAAGTCACAAAGCTGCTTGTGCTTGTGAGGAGATTTCCAGTCATG	597	Db	1593	GGAGCTCTACAGCATGCACGGTACTACATCTGTGACTCTCTGTGAGTCTGTGTA	1652
QY	1090	ACTTATGGATTAAATGCTAACAGTGTGACAGATCTTGGATTACGGCATGCTAAA	1149	QY	2170	CGCATGCTGATGTCACATTAGTCGTCGCCATGGCTCTCAATGGCAGAGGAAGGAT	2229
Db	598	ACATATGGATTAAATGCCAACGGTGTGACAGATCTTGGATTACAGGGATGCTCAA	657	Db	1653		1653
QY	1150	GATGTGGAGGATGACATGCAAGAAGAGTAAGAGTACTCCGAAGTCGACAAGGAGAA	1209	QY	2230	ATGGAAAGAGCAGAGAAGGGTAGTAAAGAGTACTCCGAAGTCGACAAGGAGAA	2289
Db	658	GATGTGGAGGACGACATGCAAAGGAGATAAGAGTACTCGGAGTGTGAGAAGAG	717	Db	1713	AATGGAGAACAGCAGAAAGGGCGCAGCAGCAAGAACAAAGAAGAAAGGAGAT	1712
QY	1210	AGAGATCCAGAGTGAACAGACAGAAACATGTTAGAGTACAGCAGAGTGAA	1269	QY	2290	CCCATGGCGAGAGATCACCATGAGCCAAGCATATCAGAACATGTTGCTGTT	2349
Db	718	AGAGACCCAGAAGTGAACAGACACCAGCAGCAGTGGCTGGCGCTCTCAGATGG	777	Db	1773	TCCATTGAGCCAGAGATCACCATGAGCCAAGCATATCAGAACATGTTGCTGGAT	1832
QY	1270	TTTACTCGTGTGTACTGACAGTGTGCTTATAGCCTTTACTAAGAAAGGACAGTGTGTT	1329	QY	2350	TAAAACATGGTAGCATGGACATGGACGGCAAAGTACGTAACCGAAGTTGAGCTTGA	2409
Db	778	TTCAACCGGAGTACTGCTGACAGTGTGCTTACTAAGAAAGGACAGTGTGTT	837	QY	1833	CAGAACATGGTCGCAATTGAGATGGCAAGTGGCAAGGCCAAATTGAGCTTGA	1892
QY	1330	GCAGAAGCTCAAATTGATGGTCAGCAGCAGATCTTCTCTGCCATTCAATTCA	1389	QY	2410	TAGTGAACAAGTTCGGTATGACACAGGTTGCTCCATTCAACAGTGTGATGACCCGGC	2289
Db	838	GCAGAGGCTCAGAAACTGATGGTCCAGGGCGAGACCTTCTGCCCCACCTCA	897	Db	1893	CAGTGGCAGGTCGGIATGGCACAGGTTGCTCCGTTCAACAGCGTGTGAGCTTGA	1952
QY	1390	TTGCATCATGGCATCCAGGCCAGAAATGATACATCAAAGGAGATCATCCAATTATG	1449	QY	2470	GCCAGTGCACTACTACAGTTCAAGGAATGTCGACCTCAATAATAGCCTCTCC	2529
Db	958	GGTTTGAGCCCTTGTAACTGAGATTTCCACCCACCTCCCTCGCTATGCAA	957	Db	1953	ACCAGTGCACTACTGCGAGTCAAGGAATGTCGACCTCAGTAATACAGCCCTCTCC	2012
QY	1450	GTTTTGAAACCCCTGTGACCCAGAGGCTACTTCCACCTACCTCCCTCGATATGAAA	1509	QY	2530	TCAGTCTCTGACTGTATGGCGCTAGTAAGCCTTCAACAGGCAAATGTTGAGCTTGA	2409
Db	898	TTGCACACACGGCATCCAGCTCAGAACGACACTACCAATTATGATG	957	QY	2590	GGAAAATTCTAACCGGACCATGAGTTAAGGATTAAAGGTGCAAACCCAA	2649
QY	1510	ATAATTAAAGGGAGAAATGGTGAACATATTGCAAGATTAGATAATAAAACT	1569	Db	2073	TGAGAGCATCCCCAATGCAGACCGGGAGGTCAAGGATCCTAAAGGTGCAAAGATGATCT	2072
Db	1018	ATAATTAAAGGAGAAATGGTCAACTATTCTCAAGATTTCTGTTGAAATT	1077	QY	2650	CTTGTGGTTATGAGTTATTGGAGGGACACAAAGGAATCTAAAGTTCTCTGA	2709
QY	1570	GTCTGTGAGTGTGAACTTACCAACTTACATGTATCTGTTGATTTCTGTGAATT	1629	Db	2133	CTTGTGGTTATGAGCTCTAGCAGGGAGGTCAAGGATCCTAAAGGTGCAAAGCTAA	2132
Db	1078	GTCTGTGAGTGTGAACTTACCAACTTACATGTATCTGTTGATTTCTGTGAATT	1137	QY	2710	ATTGATTTCTCTGCTCATATAATTCTCTGTTGAAACTTGTGTTGAGAGACTGG	2769
QY	1630	AGTGAACAGTCACCATGTTCTTCAAGATCTCTGTTGAAACTTCTGGAT	1689	Db	2193	ATTGATTTCTCTGTTCAACAAATACTTCTCTGTTGIGAAGACTGGTTGAAAGAGACTGCA	2252
Db	1138	AGTGAACAGTCACCATGTTCTCTGTTGAAACTTCTGGAT	1197	QY	2770	GAGGTGCCATAAGGGCAGAGTCTCTCAGACCAACTCTTAGAGGGCACATCACC	2829
QY	1690	ACACAAAGGTTGGAACTCATCTCATGCAAGACATGGCAACTTGGCT	1749	Db	2253	AAGATGACCAT-----GTCTACTCTGGGGTACACCA	2253
Db	1198	AACACAAAGTCTTCAGTCATCTCATGCAAGACATGGCTCCCCTCC	1257	QY	2830	AGGCTCACATCACGGGAAGTGGATTCTGGTAACACTCATATAAGGA--	2886
QY	1750	TTGTGAGTCCTCGAGGTTCCCGAACGACTCATCTGTTGAAAGTGGCT	1809	Db	2284	GTGCCCCACACGGTACATTAAGTGGCTCTTGTGAAAGACAGAC	2343
Db	1258	TTCCGTCAGTCTCCGGTGTCTCCCCCAAGTGTGCTCTGCTATAATACACCGCTA	1315	QY	2887	-ATACTTGTGAGCTTACATGACAGTACCTGCTTAAAGTGGTT	2945
QY	1810	AGGACTGTATGACTCCTTGTACTCACTGTTGTCGGCATTCTGTGTTTAAAGTGGT	1869	Db	2344	TCAGTACATGAGTACACCCCTACCTGAGAGACG-AAACTGCTGTTAAAGTGGTT	2402
Db	1316	AGGACTGTCAGTCTCTGTTGAGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT	1257	QY	2946	TATTGTTCCATGAGGAAACTGGCTTATGAACTGCTGTTAAAGTGGTT	3005
QY	1870	TCCATGGACATAACAGGGCTCGACAGAGATAAGCTGTCATGAGGATTG	1829	Db	2403	TGTATACTCCATGGTGTGACGGG---CTGGAATGCACTGGTGAACGTACATGGTT	2458
Db	1376	TCCATGGCCATACAGGGCTCGAGAGACAAACTGGTCACATTGAGAGGTTG	1375	QY	3006	TATTACAGATTAACTACAATTGAGGAAACTGGTGAACGTGTTATA	3065
QY	1930	CCACCTTGCAAGGTTGAGCTTATTAATAGGCAGAGAGGTGATGTCAGC	1989	Db	2459	TATTACAGACTCTGTAACACTTTTAATGATGATGTTGTTG-AATAGTGTGTTA	2517
Db	1436	CCACCTTGCAAGATG-----AGGAGAGAGGTGATGCCAGC	1472	QY	3066	AAGGTTAATAATTCTGACAAAAA	3091

QY	1141 AAAACTGTCGTGAGGTTGAAATTACATTGATCCTGGATTTCTG	1200	MCKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Halle, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Ketteman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E., Scherich, A., Schein, J.E., Jones, S.J. and Marra, M.A.
QY	1683 GGTGGATAACAAAAGGTCTTGGAACTCATCTCATGCAAGACATGGTGAAGATGACT	1742	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Db	1261 GGTGGATAACAAAAGGTCTTGGAACTCATCTCATGCAAGACATGGTGAAGATGACT	1320	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
QY	1743 TCGGTCTTGGCAGATCCTCCGACTGCTTCCCCAAGTGCTACCTATAATCAC	1802	22388257
QY	1321 TCGGTCTTGGCAG--TCCTCCGGTGCCTTCCCACAGTGCTACCTATAATCAC	1378	1247932
QY	1803 CAGGCTAAGGACTGTGACTCGACTCCTTGTACTCTGTTGCCATTCTGTAGCTT	1862	2 (bases 1 to 2467)
Db	1379 CAGGCTAAGGACTGTGACTCCTTGTACTCTGTTGCCATTCTGTAGCTT	1438	Strausberg, R.
QY	1863 ATTCAAGATCCATGGACATAACAGGGCTCGACAGAGGATAAGCTGGTCATATTCTGAG	1922	Direct Submission
QY	1439 ATTCAAGATCCATGGACATAACAGGGCTCGACAGAGGATAAGCTGGTCATATTCTGAG	1498	Submitted (02-JUN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
QY	1923 GAATTGCCACCTGCAGGATGAGTTATGACATTAA TAGGCAGAGAGTTG	1982	NIH-MGC Project URL: http://mgc.nci.nih.gov
Db	1499 GAATTGCCACCTTGCACTTGCAAGGATG-----AGGCAGAGAGTTG	1535	Contact: MGC help desk Email: cgapbs-r@mail.nih.gov
QY	1983 ATGCAGCGCTCACACCATGCTGTGAACAGGAACCCAAAGGCAACATTGGCCTGGT	2042	Tissue Procurement: Leonard I. Zon, M.D.
Db	1536 ATGCAGCGCTCACACCATGCTGTGAACAGGAACCCAAAGGCAACATTGGCCTGGT	1595	CDNA Library Preparation: Invitrogen Corp
QY	2043 TAGGTACCTGGCCTTACACATTGACAGTACACTTCTAAGTGCT	2102	DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Db	1596 TAGGTACCTGGCCTTACACATTGACAGTACACTTCTAAGTGCT	1655	Web site: http://www-shgc.stanford.edu Contact: (Dickson, Mark) mcd@paxil.stanford.edu Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.
QY	2103 TGTGAATTGGAACCTACAGTATGCACTGACGAG-TACTATTACATATATTGGTATCTCTGAA	2161	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov
Db	1656 TGTGAATTGGAACCTACAGTATGCACTGACGAG-TACTATTACATATATTGGTATCTCTGAA	1715	Series: IRAK Plate: 117 Row: n Column: 11 This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, GenomeScan gene prediction, Similarity but not identity to protein.
QY	2162 TRCCTTACCGCATGGTGTCAACATTGAGTCGTGCCGATGGCTCTCAAATGGCAGAG	2221	FEATURES
Db	1716 TRCCTTACCGCATGGTGTCAACATTGAGTCGTGCCGATGGCTCTCAAATGGCAGAG	1775	Source
QY	2222 GAAAGGATAATGGAAGAGCAGCAGAAAGGCCGTAGTAGAAAAAACAAAGAAAAAAG	2281	1. .2467
Db	1776 GAAAGGATAATGGAAGAGCAGCAGAAAGGCCGTAGTAGAAAAAACAAAAAGAAAAAAG	1835	/organism="Danio rerio"
QY	2282 AAA 2284		/mol_type="mRNA"
Db	1836 AAA 1838		/db_xref="taxon: 7955"
RESULT 6			/clone="MGC:64157 IMAGE:6797204"
LOCUS	BC053286	2467 bp	/tissue_type="Kidney", zebrafish"
DEFINITION	Danio rerio cDNA clone	mRNA linear	/clone_Tib="NCI_CGAP_ZKid1"
ACCESSION	BC053286	VRT 09-JUN-2003	/lab_host="DH10B"
VERSION	BC053286.1	GI:31418975	/note="Vector: pCMV-SPORT6.1"
KEYWORDS	MGC.		58. .2232
SOURCE	Danio rerio (zebrafish)		/codon_start=1
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.		/product="Unknown (protein for MGC:64157)"
REFERENCE	1 (bases 1 to 2467)		/protein_id="AAH53286.1"
AUTHORS	Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullany, S.J., Bosak, S.A., McEwan, P.J.,		/translation="MVKSSVEEEGGWGLGIPERKMRNNNANWDVTQEEFKGACKELKL GELLHDKLFGLFEAMSATEMDPKMDAGMIGNQVNRLQPTPRYAKIKREMYNSKLIER ELIGIMDTCFCCLITWLLEGHSLAQTVFTCLYVHNPDLIQDPALKAFGILKICDIAR EKVNKAAVFEEEDFOAMTYGFKMANNTDLRVTGMLKDVEDELORKVKSTRSRQEQR DPEVELDHOQLALFSRKFRTRILSALISFTKETSVASEAOQLMSQAIDLIPAVHA TIQYGIQSONDTKGDHPIMGFFPLWNQRLPPTPRYAKIKREMYNSKLIER IKSVCDEVINTNLHSLDFCFFSEOSPCVLSRSLQTLQDPAKFAFGILKICDIAR HILEEFTATLQDEAKVDAALHGLMKEPQHQHLACIGTWLYHNRIMIQLISLGEE DALRCFVSPPVLSKCSLNWNHQAKDVIDSFVTCHTRPFCLQTHGNRQDKLG KARPLSKETTMSQAYQNMCAGMYKTMALDMDRVKPQOFELDSEQVRVERHAFPNS VUTPPPWHYIQLKMSDLKKYNPPRSRADLYMASKHFOQAKLLENVTSPDAEVRI LVYAKPNIVVWKLLAGHKETKALPEEDFSAHKYYPIVKL"
BASE COUNT	720 a 574 c 600 g 573 t		ORIGIN
Query March	40 98	Score 1264 8.	DB 5. Length 2467.

		Best Local Similarity	74.3%	Pred.	No. 8.3e-276;	Matches	1648; Conservative	0;	Mismatches	542;	Indels	28;	Gaps	3;	Dh	1062	TAAGACGCGTGTGAGGTCAACATCACCAACCTGCACAGCATCCTGGATTCTTCG
Qy	543	AGAAGTAGGCCATAATGGTTATGAAAGCTCTGTAGATGACGATTCAAGGATGGAGCT	602	Qy	1623	TGAATTAGTGAAACAGTCACCATGTTCTTCAGATCTCTGTGTTACAACACTTTCT	1682	Db	45	AAAAGCTGTCTCCATGGTGTAGACTCATCGGTGAGGAGGGAGGTGGGTCT	104	Db	1122	TGAATTAGTGAGCAGTCTCCATGTGTCTAGATCTACTGCAGACCACGTTCT	1181		
Qy	603	CAGTATGCCAGAAAATGGAGAAATGCAATACTGGGGACATACCAAGAGATT	662	Qy	1683	GGTGGATAACAAAGGTCTTGGAAACTCATCTCATGCAAGACATGGTGAAGATGCAC	1742	Db	105	GGGATCCAGAGAGAT--GAGAACATGCCACTGGTGGACGTACCCAGGAGTT	161	Db	1182	GATCGACAAAGAGGTGTTGGACTCATCTGATGAGGATATGATAAGATGGCCT	1241		
Qy	663	TGAAGAAGCTTGTGAGAATTAAAGTGGAGAAAGCAATACTGGGGACATACCAAGAGATT	662	Qy	1743	TCGGTCTTTGTCAGATCCTCGAGTCTCCAGTGCTACCTATAATAATCAC	1802	Db	162	TAAAGGAGCTTGTAAAGAACTCAACTTGGCGAGCTCCATGACAACTGATTCGGTCT	221	Db	1242	GCGCTTTGTCAG--TCCACCTGTTCTCAAAATGAGTGAAGCCATAC	1299		
Qy	723	TTTGAAAGCCATGTCGCTATTGAAATGATGGATGCCAAGATGGATGGCTGGATGATGG	782	Qy	1803	CAGGCTAAGGACTGTATGACTCCTTGACTACTGTTGAGTGTGGCCATTGTAGCTT	1862	Db	222	GTTCGAAGGCCATGTCGCCATGGAGATGATGGATGGATGTCGGATGATCGG	281	Db	1300	CAGGCTAAGGATATATGACTCCTTGACACACTGACGGGGTCTGCAGCCCTC	1359		
Qy	783	AAACCAAGTTATGAAAGTTCTCAATTGACAAGCTATCAAGGATGGCACTATTAA	842	Qy	1863	ATTCAGATCCATGGACATAACAGGCACTGGCATTACATTAC	1922	Db	282	AATTCAGTCACCGTAAGTCTCAACTTGTGACCTGTTAAGGATGAACTAC	341	Db	1360	ATCCAGATTACGGACACAACGGAGCCACAGAGACAACACTGGTCACATTC	1419		
Qy	843	AATTAAGATTCACCTGTAAGTCTCAACTTGTGACCTGTTAAGGATGAACTAC	902	Qy	1923	GAATTGCCACCTTGACTGAGGATTAGGATATGACATGTTTGCGTGT	1982	Db	342	GGTGAAGATCTAAGTATCTGTGAGCTCATCGGGATCATGACACATGTTCTGCT	401	Db	1420	GAGTGGCACACTTCAGGAT-----AGGCAGAGAAGGTG	1456		
Qy	903	GATAACGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATCA	962	Qy	1983	ATGCAGGCTCACACCATGTTGAAACAGGAAACCCAAAGGCAACATTGGCCTG	2042	Db	402	GATCACGTTGGAGGGCATTCTGTGCTCAGACCGCTTTACATGTCAGTCA	461	Db	1457	ACGCTGCTTCACGGCTGTCAGGCTCTGGCTCAGGCGATTTAGGCT	1516		
Qy	963	TAATCCAGACTTATAGAGATCTGCTATGAAAGGCTTTCGCTCTGGGAATCTGAAT	1022	Qy	2043	TAGTTACCTGGTCTTACACATAACCTTCGCAATTATGATACAGTACCTCTA	2102	Db	462	TAATCCGGATCTGATTCAGACACGCTCAAGCCTCGCTCAAAGCCTCTGGCT	521	Db	1517	TGGGCACCTGGATCTTACACAAACCTGGCATTCTGCTCAGGCT	1576		
Qy	1023	CTGTGACATGCAAGGAAAGTAAATAAGCTAACAAAGCTGCTAACAAAGCTCA	1082	Qy	2103	TTGAATTGAACTCTACAGTATGACGAGTACTATTACATATATGGTATCTCTGAAT	2162	Db	522	CTGTGACATGCCCGTGAAGAAGTCAACAACTGCTAACAAAGCTGCTGTTCA	581	Db	1577	TTGAGCTGGAGCTACAGCATGCACTGAGTACATCTGTCAGAGT	1636		
Qy	1083	GTCAATGACTTATGGATTAAATGCTAACAGGCTGCTGTTGAAGAGGAAGATTCA	1082	Qy	2163	TCCTTTACCGATGTTGATGTCACACCTGGCGATGGCTCTCAATGGCAGAG	2222	Db	582	GGCCATGACTTACGGCTTAAATGCCAACAACTGCTAACAAAGCTGCTGAA	641	Db	2223	AAAGGATAATGGAAGAGCAGGAGAAGGCGTAGTAGTAAACAAAGAAAAAGA	2282		
Qy	1143	GCTAAAGATGGAGGATGACATGCAAAAGAGTAAGGAGTACTCGGAGTCGACAAG	1202	Qy	1637	TCTTGTATGCGTGTGATGTCACGCTGAGCTCTGAGGCGACAGCTCTGAGG	1696	Db	642	GCTGAAGATGTTGAGGATGAACTTCAGAGGAAGTACCTGAGAGTGAAGGAA	701	Db	1697	AGAGAAATCTGGAGGGCAGCTCAAGTGGCAGCAGCAAGAGCAAGAGAAGA	1756		
Qy	1203	AGAGAGAAAGATCCAGAGGTTAGAACAACAACTGTTAGCAGTATTCCAGCG	1262	Qy	2283	AAGTTCGCCATTAGGCCAGAGATCACCATGAGCCAAAGCATATGAGGAG	2342	Db	702	TGACACAGCGAGATCCTGAGGTCAGTACATCAGCGAGTCTGGCTCTGTC	761	Db	1757	AAGCTGCTCTGAGTAAGAGATCACCATGAGCCAGGCTTACCGAGACATGTC	1816		
Qy	1263	AGTGAATTACTCGTGTACTGACAGTGTATAGCCTTACTAAGAGAGCCAG	1322	Qy	2343	GAATGTTAACACATGGTAGCATGGACGGCAAGTACGTAACCGAAGTTG	2402	Db	762	GGTTAACTCCACTCGTCTGCTGCTCAGCGCCTAATCTCCITCACCAAAAGAGCGAG	821	Db	1817	GGATGTCACAGGATGATTCGGCTGGTATGGATCGAAAGGTGGCAACCTCAGT	1876		
Qy	1323	TGCTGTTGCCAGAGCTCAAAATGATGGTCAAGCAGCAGATCTTCTGCCCCATCA	1382	Qy	2403	AGCTTGATAGTGACAGCTGGTATGACACAGGTTGCTCCATTCAACAGTGTGATG	2462	Db	822	TGCTGTTGAGGCCAGCACAGACGCTGATGAGTCAGCTGCTGATTAAGGAGATCACCGAT	881	Db	1877	AGCTGGACAGTGGCAGGTGCTACGAGCATCGCTTCGCCCCCTCAACAGTGTGTC	1936		
Qy	1443	TATGATGGTTTGAAACCCCTGGAAACCAGAGCTACTTCCACCTTCCCTCGATA	1442	Qy	2463	CCCCGGCCAGTCCACTACAGTCAAGGAATGTCAGCTCAATAATAGCC	2522	Db	942	CATGATGGTTTGAGCCCTGCTGGTAAACAGGCCCTGCTCCACCTAGTCCCCGATA	1001	Db	1937	CACCAACCCAGTCACTACATCCAGTTAAGGAATGTCAGGCTTCAACAGGCAAA	1996		
Qy	1503	TGCCAAATAATAAAAGGAGAAATGGTAACTATTTGCAAGATAATAGATAAT	1562	Qy	2523	CTCCTCTCGCTCAGGCCATTGAGGTTAATGAGCTTCAACAGGCAAA	2582	Db	1002	TGCCAAGATCAAGGCCAGAGGATGGTCACACTTCAGCAACTCATGGCCAT	1061	Qy	2583	TGATATTGAAATACTTCAACCGGACCATGAGGTTAATGAAATTAAAGGTG	2642		
Qy	1563	AAACTGTCTGTGAGGTGTGAATTAAACAATTACATGTTCTGGATTTTCTG	1622	Qy	2057	TCTTACTGGAAATGTCACCGCCCTGATGCCAGGTTAATCGTAAAGTGGCA	2116	Db	2117	AACCAAATGTTGAAAGCTGCTGGAGGACACAGAGACAGGACCAAGGCC	2176	Db	2117	AACCAAATGTTGAAAGCTGCTGGAGGACACAGAGACAGGACCAAGGCC	2176		

Qy	2703	CTCCTGAATTGATTCTCGTCATAAATTTCTGTGAACTTGTGAGA	2760	Db	121	TAATGGAAGAGCCAGAAAGGCCGTAGTAGTAAAAAACAGAAAAGAAGTC	180			
Db	2177	TTCCTGAATTGACTTCTCTGCTCACAAATCTTACATGCAAATGAGA	2234	Qy	2289	GCCCATTGAGCCGAGAGATCAATGAGCCAAGCATATCAGAACATGTGTGCTGGAATGT	2348			
RESULT	7	AK026296	997 bp	mRNA	linear	PRI 29-SEP-2000	Db	181	GCCCATTGAGCCGAGAGATCAATGAGCCAAGCATATCAGAACATGTGTGCTGGAATGT	240
LOCUS		HOMO sapiens	cdNA:	FLJ22643	fis,	clone HSI07031.	Qy	2349	TTAACACCATGGTACATGGACATGGACAGCAAAGTAGCTAACCGAAGTTGAGCTTG	2408
DEFINITION							Db	241	TTAACACCATGGTACATGGACATGGACAGCAAAGTAGCTAACCGAAGTTGAGCTTG	300
ACCESSION		AK026296					Qy	2409	ATAGTGAACAAGTTCGGTATGAAACACAGGTTGCTCCATTCACACAGTGTGATGACCCCCGC	2468
VERSION		AK026296.1	GI:	10439112			Db	301	ATAGTGAACAAGTTCGGTATGAAACACAGGTTGCTCCATTCACACAGTGTGATGACCCCCGC	360
KEYWORDS		Oligo capping; fis (full insert sequence).					Qy	2469	CGCCAGTGCACTACTACAGTCAAGGAATGTCACCTCAATAATAGCCCTCC	2528
SOURCE		Homo sapiens	(human)				Db	361	CGCCAGTGCACTACTACAGTCAAGGAATGTCACCTCAATAATAGCCCTCC	420
ORGANISM		Homo sapiens					Qy	2529	CTCAGTCTCTGAACTGTATGTTGGCAGCTAGTAAGCAACTTTAACAGGCAAATGAT	2588
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;							Db	421	CTCAGTCTCTGAACTGTATGTTGGCAGCTAGTAAGCAACTTTAACAGGCAAATGAT	480
Mammalia; Eutheria; Primates; Cetarrhini; Hominidae; Homo.							Qy	2589	TGGAAATATTCCTAACCGGACCATGAGCTTAATAGAAATTAAAGGTGCCAAACCA	2648
1 (sites)							Db	481	TGGAAATATTCCTAACCGGACCATGAGCTTAATAGAAATTAAAGGTGCCAAACCA	540
REFERENCE		Watanabe, K., Kumagai, A., Itakura, S., Yamazaki, M., Tashiro, H., Nakamura, Y., Isogai, T. and Sugano, S.					Qy	2649	ACTTTGTGTTATGAACTTGGCAGGACACAAAAGGAATCTAAAGGTCCCTCC	2708
AUTHORS		Ota, T., Suzuki, Y., Obayashi, M., Nishi, T., Shibahara, T., Tanaka, T. and Nakamura, Y.					Db	541	ACTRTGIGGTATGAACTTGGCAGGACACAAAGGAATCTAAAGGTCCCTCC	600
JOURNAL		Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure Analysis, Human Genome Center; Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639, Japan (E-mail:cDNA1@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286, Fax:81-3-5449-5416)					Qy	2709	AATTGATTCTCTGTCATAAATTTCTGTGAACTGTGAGAGACTGG	2768
COMMENT		NEDO human cDNA sequencing project supported by Ministry of International Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction, 5' - & 3' -end one pass sequencing: Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).					Db	601	AATTGATTCTCTGTCATAAATTTCTGTGAACTGTGAGAGACTGG	660
FEATURES		Location/Qualifiers					Qy	2769	GCAGGTGGCATAAAGGGCAGAGTCTTTCAGACCAACTTAGAGGGCACATCAC	2828
SOURCE		1. .997 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="HSI07031" /tissue_type="human small intestine" /clone_Tib="HSI" /note="cloning vector pME18SFL3" 15. .650 /note="unnamed protein product" /codon_start=1 /protein_id="BAB15435.1" /db_xref="GI:10439113" /translation="MHEYYIYIWYLSEFLYAWLMLSTLSRADGSQMAEERIMEEQQKGRSSKKKKKKRPLSREITMSQAYQNMCAGMFKTMVAFMDGSKVKRPKFELDSEORYEHRAFPNSVMTTPPVHYLQFKEMSDLINKYSPPPQSPELYVAASKHFQQAKMILENP NPDVNRILKVAKPNFVVMKLLAGHKKESKVPPEFDPSAHKYFPVVKLV"			Db	661	GGAGGTGGCCATAAAGGGCAGAGTCTTTCAGACCAACTTAGAGGGCACATCAC	720		
BASE COUNT		334 a 171 c 213 g 279 t					Qy	2829	CAGGCTCACATCACCGGAAGTGAGATGCCATTCTGGGTACAACTCATTATAAGGAAT	2888
ORIGIN							Db	721	CAGGCTCACATCACCGGAAGTGAGATGCCATTCTGGGTACAACTCATTATAAGGAAT	780
Query Match		31.9%; Score 988; DB 9; Length 997;					Qy	2889	ACTTTAGTTGACAGCCTTATATGACATGAATGAAACTGCTGTTAAAGGTGTT	2948
Best Local Similarity		100.0%; Pred. No. 4.4e-213;					Db	781	ACTTTAGTTGACAGCCTTATATGACATGAATGAAACTGCTGTTAAAGGTGTT	840
Matches		988; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					Qy	2949	TATGTTCCATGGAAAGACTGCTTATATGAAATGCAATGAAACGTATATGGTTTAT	3008
Qy	2109	TGGAACCTACAGTATGCCAGGACTATTACATATGGTATCTCTGAAATTCTT	2168	Db	841	TATGTTCCATGGAAAGACTGCTTATATGAAATGCAATGAAACGTATATGGTTTAT	900			
Db	1	TGGAACTCTACAGTATGCCAGGACTATTACATATGGTATCTCTGAAATTCTT	60	Qy	3009	TACAGATTAATCACAAATCATTTTATGAAATGATGTTGAAATAGTGTGTTAAAG	3068			
Qy	2169	ACGGATGGTGTGATGTCACATTGAGTCGGCGATGGCTCTCAAATGGCAGAGGAAGGA	2228	Db	901	TACAGATTAATCACAAATCATTTTATGAAATGATGTTGAGTGAAATAGTGTGTTAAAG	960			
Db	61	ACGGATGGTGTGATGTCACATTGAGTCGGCGATGGCTCTCAAATGGCAGAGGAAGGA	120	Qy	3069	GTTAATAATTCTGACAAAAAA	3096			
Qy	2229	TAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAA	988	Db	961	GTTAATAATTCTGACAAAAAA	988			
RESULT	8	AK056059	1796 bp	mRNA	linear	PRI 01-AUG-2002	Qy	121	TAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAA	180
LOCUS		AK056059					Db	181	TAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAA	2348
DEFINITION		Homo sapiens cdNA FLJ31497	fis,	clone NT2NE2005317,	highly similar to Rattus norvegicus corneal wound healing related protein mRNA.		Qy	2289	GCCCATTGAGCCGAGAGATCAATGAGCCAAGCATATCAGAACATGTGTGCTGGAATGT	240
ACCESSION		AK056059					Db	181	TAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAA	240
VERSION		AK056059.1	GI:	16551204			Qy	2349	TAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAA	2408
KEYWORDS		Oligo capping; fis (full insert sequence).					Db	241	TAATGGAAGAGCAGCAGAAAGGCCGTAGTAGTAA	300
SOURCE		Homo sapiens	(human)				Qy	2469	CGCCAGTGCACTACTACAGTCAAGGAATGTCACCTCAATAATAGCCCTCC	2528
ORGANISM		Homo sapiens					Db	361	CGCCAGTGCACTACTACAGTCAAGGAATGTCACCTCAATAATAGCCCTCC	420
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;							Qy	2529	CTCAGTCTCTGAACTGTATGTTGGCAGCTAGTAAGCAACTTTAACAGGCAAAATGAT	2588
Mammalia; Eutheria; Primates; Cetarrhini; Hominidae; Homo.							Db	421	CTCAGTCTCTGAACTGTATGTTGGCAGCTAGTAAGCAACTTTAACAGGCAAAATGAT	480
REFERENCE		1					Qy	2589	TGGAAATATTCCTAACCGGACCATGAGCTTAATAGAAATTAAAGGTGCCAAACCA	2648

AUTHORS	Ninomiya,K., Wagatsuma,M., Kanda,K., Kondo,H., Yokoi,T., Kodaira,H., Furuya,T., Takahashi,M., Kikkawa,E., Omura,Y., Abe,K., Kamihara,K., Katsuta,N., Sato,K., Tanikawa,M., Yamazaki,M., Sugiyama,T., Irie,R., Otsuki,T., Sato,H., Wakamatsu,A., Ishii,S., Yamamoto,J., Isono,Y., Kawai-Hio,Y., Saito,K., Nishikawa,T., Kimura,K., Yamashita,H., Matsuo,K., Nakamura,Y., Sekine,M., Kikuchi,H., Murakawa,K., Kanehori,K., Takahashi-Fuji,A., Oshima,A., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S., Nagahari,K., Masuho,Y., Nagai,K. and Isogai,T.	Db	765	AGACTTATAGAAGATCTGCTATGAAGGCCTTGCTCTGGAAATCTGTGA	824
REFERENCE	Submitted (24-OCT-2001) Takao Isogai, Helix Research Institute, Genomics Laboratory; 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan (E-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986)	Qy	1029	CATTGCAAGGAAAAGTAATAAGCTAACAGGTGACAGATCTCGAGTTCACT	1088
AUTHORS	Isogai,T., Otsuki,T. and Sugiyama,T.	Db	825	CATTGCAAGGAAAAGTAATAAGCTAACAGGTGACAGATCTCGAGTTCACT	884
TITLE	Unpublished	Db	885	GACTTATGGTTAAATGGCTAACAGGTGACAGATCTCGAGTTCACT	944
JOURNAL	2 (bases 1 to 1796)	Qy	1149	AGATGTGGAGGATGACATGCCAAGAAGGTAAGAGTACTCGAAGTCAGGAGAAGA	1208
COMMENT	Direct Submission	Db	945	AGATGTGGAGGATGACATGCCAAGAAGGTAAGAGTACTCGAAGTCAGGAGAAGA	1004
FEATURES	Location/Qualifiers	Qy	1209	AAGAGATCCAGAAGTTGAACAGTAAAGAGTACTCGAAGTCAGGAGAAGA	1268
SOURCE	1. .1796 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="NT2NE2005317" /cell_line="NT2" /cell_type="teratocarcinoma" /clone_lib="NT2NE2" /note="cloning vector: pME18SFL3-mRNA from NT2 neuron after the differentiation of NT2 neuronal precursor cells."	Db	1005	AAGAGATCCAGAAGTTGAACAGTAAAGAGTACTCGAAGTCAGGAGAAGA	1064
BASE COUNT	490 a 365 c 463 g 478 t	Qy	1269	ATTACTCTGTACTGACAGTCTATAGCCTTACTAAGAACAGCAGTCTGCT	1328
ORIGIN	28.6%; Score 885.4; DB 9; Length 1796; Best Local Similarity 99.9%; Pred. No. 9.e-190; Mismatches 0; Indels 0; Gaps 0; Matches 886; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Db	1065	ATTACTCTGTACTGACAGTCTTACTAAGAACAGCAGTCTGCT	1124
RESULT	9 AX664135	Qy	1329	TGCGAGACTCAAATGATGGTCAAGCAGATCTCTTCGCCATTATACT	1388
LOCUS	AX664135	Db	1125	TGCGAGACTCAAATGATGGTCAAGCAGATCTCTTCGCCATTATACT	1184
DEFINITION	Sequence 7 from Patent WO02057304.	Qy	1389	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
ACCESSION	AX664135	Db	1185	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1231
VERSION	AX664135.1 GI:29164145	Qy	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
KEYWORDS	.	Db	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
SOURCE	Homo sapiens (human)	Qy	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
ORGANISM	Homo sapiens	Db	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	Qy	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
AUTHORS	Panzer,S.R., Lincoln,S.E., Altus,C.M., Dufour,G.E., Jackson,J.L., Jones,A.L., Dam,T.C., Liu,T.F., Harris,B., Flores,V., Daffo,A., Marwaha,R., Chen,A.J., Chang,S.C., Gerstein,E.H., Peralta,C.H., David,M.H. and Lewis,S.A.	Db	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
TITLE	Secretory molecules	Qy	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
JOURNAL	Patent: WO 02057304-A 7 25-JUL-2002; Incyte Genomics, Inc. (US)	Db	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
FEATURES	Location/Qualifiers	Qy	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
SOURCE	1. .719 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /note="Incyte ID No: LI:462889.1:2001JAN12"	Db	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
BASE COUNT	223 a 113 c 188 g 195 t	Qy	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
ORIGIN	Query Match 23.2%; Score 717.4; DB 6; Length 719; Best Local Similarity 99.9%; Pred. No. 9.9e-152; Mismatches 718; Conservative 0; Indels 0; Gaps 0; Matches 718; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Db	1435	ATTGCATCATGGCATCCAGGCCAGATGACTACAAAGGAGTC	1435
RESULT	9474 GGCGGGCCGGGGCGTCGTTTACGGGATTTCCGGGGCGCGGT	Qy	474	GGCGGGCCGGGGCGTCGTTTACGGGATTTCCGGGGCGCGGT	533
LOCUS	1 GGCGGGCCGGGGCGTCGTTTACGGGATTTCCGGGGCGCGGT	Db	1	GGCGGGCCGGGGCGTCGTTTACGGGATTTCCGGGGCGCGGT	60
DEFINITION	534 GACCACGGAGAGTAGGCATAATGGTATGAAGCTCTGTGACGATCAGG	Qy	534	GACCACGGAGAGTAGGCATAATGGTATGAAGCTCTGTGACGATCAGG	593
ACCESSION	61 GACCACGGAGAGTAGGCATAATGGTATGAAGCTCTGTGACGATCAGG	Db	61	GACCACGGAGAGTAGGCATAATGGTATGAAGCTCTGTGACGATCAGG	120
VERSION	61 GACCACGGAGAGTAGGCATAATGGTATGAAGCTCTGTGACGATCAGG	Qy	594	AGGGAGCTCACTATGCCAGAAAAATGGAGAAAGCAATACAACGGGTGACATTAC	653

Db	121	ATGGGAGCTCACTATGCCAGAAAATGGAGAAAGCAACTGGGGACATTAC	180
QY	654	CCAAGATTTGAAGAACGCTGCGAGAATTAAGTGGGAGAACTACTCATGATACT	713
Db	181	CCAAGATTTGAAGAACGCTGCGAGAATTAAGTGGGAGAACTACTCATGATACT	240
QY	714	ATTTGGCTTTTGAAAGCCATGTCATGCTATGAAATGATGGATCCAAAGATGGATGCTG	773
Db	241	ATTTGGCTTTTGAAAGCCATGTCATGCTATGAAATGATGGATCCAAAGATGGATGCTG	300
REFERENCE		TITLE JOURNAL	
AUTHORS		Submitted (23-NCV-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA	
	3	(bases 1 to 147876)	
Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N., Anderson, S., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boguslavskiy, L., Boukhalter, B., Camarata, J., Chang, J., Choepel, Y., Collymore, A., Cook, A., Cooke, P., Corum, B., DeArellano, K., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hall, J., Horton, L., Huime, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., Lui, A., Mabbott, R., MacLean, C., Macdonald, P., Major, J., Manning, J., Mattheus, C., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Milenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., O'Conor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Strange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Venkataraman, V.S., Viel, R., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.			
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Db	954	TTACATTCAATCCAGACTTATGAAAGATTCCTGCTATGAAAGGCTT 953	
QY	481	TTACATTCAATCCAGACTTATGAAAGATTCCTGCTATGAAAGGCTT 480	
Db	1014	CTTGAAATCTGTGACATGCAAGGGAAAGTAATTAAGCTGCTT 1073	
QY	541	CTTGAAATCTGTGACATTGCAAGGGAAAGTAATTAAGCTGCTT 600	
Db	601	AGATTTCAATGACTTATGGATTAAATGGCTAACAGTGTGCTCAGATCTCGACT 660	
QY	1134	TACAGGCATGCTAAAGATGTGGGGATGACATGCAAAGAGACTCGAA 1192	
Db	661	TACAGGCATGCTAAAGATGTGGGGATGACATGCAAAGAGACTCGAA 719	
RESULT 10			
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LOCUS	AC102010	147876 bp DNA linear HTG 21-MAR-2003	
DEFINITION	Mus musculus clone RP24-531M24, WORKING DRAFT SEQUENCE, 7 unordered pieces.		
ACCESSION	AC102010		
VERSION	AC102010.3	GI:29135693	
KEYWORDS	HTG; HTGS PHASE1; HTGS DRAFT.		
SOURCE	Mus musculus (house mouse)		
ORGANISM	Mus musculus		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
AUTHORS	1 (bases 1 to 147876)		
TITLE	Birren, B., Nusbaum, C. and Lander, E.		
JOURNAL	Mus musculus, clone RP24-531M24		
REFERENCE	2 (bases 1 to 147876)		
AUTHORS	Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Boguslavkiy, L., Boukhgaiter, B., Brown, A., Camarata, J., Campopiano, A., Chang, J., Chazaro, B., Choepel, Y., Colangeli, M., Collins, S., Collymore, A., Cook, A., Cooke, P., Dearallano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyna, S., Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Heaford, A., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., LaRocque, K., Lamazares, R., Landers, T., Lebocky, J., Levine, R., Liu, G., MacLean, C., Macdonald, P., Major, J., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., McPheeters, R., Meldrim, J., Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Rettar, R., Rieback, M., Riley, R., Rose, C., Rogov, P.,		
COMMENT			
		TITLE JOURNAL	
		Submitted (21-MAR-2003) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA	
		On Mar 21, 2003 this sequence version replaced gi:28412092.	
		All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html	
		----- Genome Center	
		Center: Whitehead Institute/ MIT Center for Genome Research	
		Center code: WIBR	
		Web site: http://www-seq.wi.mit.edu	
		----- Contact: sequence_submissions@genome.wi.mit.edu	
		----- Project Information	
		Center project name: L17873	
		Center clone name: 531_M_24	
		----- Summary Statistics	
		Sequencing vector: Plasmid; n/a; 100% of reads	
		Chemistry: Dye-terminator Big Dye; 100% of reads	
		Assembly program: Phrap; version 0.960731	
		Consensus quality: 146099 bases at least Q40	
		Consensus quality: 146869 bases at least Q30	
		Consensus quality: 147004 bases at least Q20	
		Insert size: 157000; agarose-fp	
		Insert size: 147276; sum-of-contigs	
		Quality coverage: 9.9 in Q20 bases; agarose-fp	
		Quality coverage: 10.6 in Q20 bases; sum-of-contigs	

		* NOTE: This is a 'working draft' sequence. It currently	
		* consists of 7 contigs. The true order of the pieces	
		* is not known and their order in this sequence record is	
		* arbitrary. Gaps between the contigs are represented as	
		* runs of N, but the exact sizes of the gaps are unknown.	
		* This record will be updated with the finished sequence	
		* as soon as it is available and the accession number will	
		* be preserved.	
	1	84958: contig of 84958 bp in length	
	84959	85058: gap of 100 bp	
	85059	87411: contig of 2353 bp in length	
	87412	87511: gap of 100 bp	
	87512	8933: contig of 2422 bp in length	
	89334	9033: gap of 100 bp	
	90034	94076: contig of 4043 bp in length	
	94077	94176: gap of 100 bp	

ACCESSION	AJ334413.1	GI:15878831
KEYWORDS	.	
SOURCE	Homo sapiens	(human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
REFERENCE	1	(bases 1 to 642)
AUTHORS	Kutsenko,A.S., Gizatullin,R.Z., Al-Amin,A.N., Wang,F., Kvasha,S.M., Podowski,R.M., Matushkin,Y.G., Gyanchandani,A., Muravlenko,O.V., Levitsky,V.G., Kolchanov,N.A., Protopopov,A.I., Kashuba,V.I., Kisseliev,L.L., Wasserman,W., Wahlestedt,C. and Zabarovsky,E.R.	
TITLE	NotI flanking sequences: a tool for gene discovery and verification	
JOURNAL	Nucleic Acids Res. 30 (14), 3163-3170 (2002)	
MEDLINE	22131767	
PUBMED	12136098	
REFERENCE	2	(bases 1 to 743)
AUTHORS	Zabarovsky,E.R.	
TITLE	Direct Submission	
JOURNAL	Submitted (16-MAY-2001) Microbiology and Tumorbiology Centre, Karolinska Institute, Theorells vag, 3, Box 280, Stockholm 171 77, Sweden	
FEATURES	Location/Qualifiers	
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Best Local Similarity	95.4%; Pred. No. 7.9e-57;	
Matches	308; Conservative 0; Mismatches 15; Indels 0; Gaps 0;	
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Qy	61 GCACGGCTGTTCTCGAGCTGGCTGGCTGCTGTTGGCTCGCAACCACTAAGGTCTACG 120	
Db	263 GCACGGCTGTTCTCGAAAGCTGGCTGCTGCTCGCAACCACTAAGGTCTACG 204	
Qy	121 CAAACTCCACGGTTCCCTCCGCTCACCTTCTAAGAAATTCCAGAGGGCA 180	
Db	203 CAAACTCCACGGTTCCCTCCGCTCACCTTTAAGAAATTCCAGAGGGCA 144	
Qy	181 GCGCAGACGGGGGGCTCTGAGACTCCGGCTCCGCTCTTCCGGAACCGCCACTA 240	
Db	143 GCGCAGACGGGGGGCTCTGAGACTCCGGCTCCGCTCTTCCGGAACGCCACTA 84	
Qy	241 CCCAGGACTCCGACAGAGGGTGAAGAAAGATAACTCCGGCTCGCGATCGTCTCTAATC 300	
Db	83 CTCAGGACTCCGTCAGAAAAAAACCGATTACTCCGGCTCGCGATCGTCTCTAATC 24	
Qy	301 TCGCGAGAAGAGGAAGGGCCGC 323	
Db	23 TCGCGAGAAGAGGAAGGGCCGC 1	
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LOCUS		PRI 18-JUL-2002
DEFINITION	Homo sapiens genomic sequence	
NR1-ND24C.		
ACCESSION	AJ342328	
VERSION	AJ342328.1	GI:15886745
KEYWORDS	.	
SOURCE	Homo sapiens	(human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model
Run on: November 25, 2003, 03:13:51 ; Search time 106 Seconds
(without alignments)
10683.169 Million cell updates/sec

Title: US-10-001-857-42
Perfect score: 5439
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Scoring table: BL0SUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 667484 seqs, 182883703 residues

Total number of hits satisfying chosen parameters: 1334968

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ALIGNMENTS

RESULT 1
US-10-001-857-145
; Sequence 145, Application US/10001857
; Publication No. US20020183500A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and P
; FILE REFERENCE: DEX-0273
; CURRENT APPLICATION NUMBER: US/10/001,857
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/252,054
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Patentin version 3.1
; SEQ ID NO: 145
; LENGTH: 733
; TYPE: PRT
; ORGANISM: Homo sapien

Sequence 145, APP
Sequence 1982, APP
Sequence 76, APP
Sequence 38, APP
Sequence 2, APP
Sequence 26, APP
Sequence 33, APP
Sequence 2, APP
Sequence 50, APP
Sequence 32198, A
Sequence 5, APP
Sequence 11, APP
Sequence 8, APP
Sequence 2, APP
Sequence 4, APP
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Sequence 1002, APP
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Sequence 2, APP
Sequence 4, APP
Sequence 36, APP
Sequence 34, APP
Sequence 22, APP
Sequence 10, APP
Sequence 24, APP
Sequence 14830, A
Sequence 10907, A
Sequence 2, APP
Sequence 20, APP
Sequence 43, APP
Sequence 43, APP
Sequence 102, APP
Sequence 7399, APP
Sequence 46, APP
Sequence 35, APP
Sequence 7, APP
Sequence 56, APP
Sequence 36, APP
Sequence 2256, APP
Sequence 1088, APP
Sequence 282, APP
Sequence 12, APP
Sequence 32, APP
Sequence 47, APP

SUMMARIES

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5	145	2.6	559	US-09-858-155A-2
6	145	2.6	559	US-10-168-097A-26
7	145	2.6	559	US-10-239-431A-33
8	144	2.6	1134	US-10-001-873-50
9	142.5	2.6	800	US-10-029-386-32198
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12	141.5	2.6	5935	US-10-243-243A-8
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Db 401 -AspProPro-VaileUserProlycCysTyrlLeuTyrrAsnHisGlnAlaLysAspC 420
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Qy 1816 GTATCGACTCCTTGTACTACTGTGTGGCCATTCTGTAGTCTATTAGTCACTG 1875
Db 440 LysIleAspProValThrHisCysValArgProheCysSerLeuIleGlnIleHisG 460
Qy 1936 TGCAGGATGAGTTATGACATTTATTATAAGGCA-GAGAAGTTGATGCAAGGGCTC 1994
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Db 660 erProGluLeuValAlaIalaserLysHisPheGlnGlnAlaLysMetIleLeuGlu 680
Qy 1396 CATGGCATCCAGCCCCAGAATGACTACAAAGGAGATCATCCAATTATGATGGTTT 1455
Db 261 AlaGlnLysLeuMetValGlnAlaAlaAspLeuUserAlaIleHisSerAlaIleHis 280
Qy 1456 GAACCCCTGTGAAACCAGAGGCTACTTCCACCTTCCCTCGATATGCAAAATAATT 1515
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OS-10-168-09/A-16

US-10-2339-431A-38 ORGANISM: SCHIZOSACCHAROMYCES POMBE

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Query Match: 2.67%
DB: 12

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Matches: 53
Conservative: 14
Mismatches: 64
Indels: 39
Gaps: 8

Alignment Scores:
 Pred. No.: 0.00721
 Score: 146.50
Percent Similarity: 39.41%
Best Local Similarity: 31.18%
Query Match: 2.67%
DB: 12

Length: 574
Matches: 53
Conservative: 14
Mismatches: 64
Indels: 39
Gaps: 8

QY 544 CTCCCGGTACCGGCCGCACTGTCGGACCACGGAATAACGACGCCCT 485
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Db 336 LeuProProProProProProProProArgSerAsnAlaLyaSerIleProLeuProPro 355
QY 484 CGG-----CGCGCCGccccctccctCTCAGCCCAGCCGACGGCAGCGT 437
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Db 356 GlnGlyArgSerAlaProProProProProProProProProArgSerAla---ProSerThrGlyArg 374
QY 436 GCACCCATGCCGTATGCCGGACGGC-----GACCCGCCTCTCCCTTA 389
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 375 GlnProProProLeuUserserserSerArgAlaValSerAsnProProAla 394
QY 388 CTCCCCGGACTTCGGCTCCCCGCCACACCC-----CCTCCCTCGCCACCGCCTCCGTTCGGCCGA 326
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 395 IleProGlyArgSer---AlaProAlaLeuProProSerAlaProPro 413
QY 355 -----CCTCCCTCGCCACCGCCTCCGTTCGGCCGA 326
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 414 ThrProProValProThrProProSerLeuProProSerAlaProPro 433
QY 325 TGGCGGCCCTCTCTCGCGAGATTAGAGACCATCGCGAGACCGGAAGTTATCTT 266
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 434 SerAlaProProSerLeu----ProMetGlyAlaProAlaAlaProPro 451
QY 265 TTTCACCCCTGTGGAGTCTGGGTAGTGGC-----GGTCC 227
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 452 SerAlaProIleAlaProProLeuProAlaLyaMetProAlaAlaProPro 471
QY 226 CGGAAGAGGGGGAGCCGGAGTCTCAGAGCCCCGCTCGCGCTGCCCTCTGGAAAT 167
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 472 AlaAlaProAlaProProProAlaProAlaProAlaAla---ProValAlaSer 490
QY 166 TTCTTAGAACGGTGACCGGAAGGCCGAAGG 137
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 491 IleAlaGluLeuProGlnGlnAspGlyArg 500

RESULT 4

US-10-239-431A-38

; Sequence 38, Application US/10239431A

; Publication No. US20030170726A1

; GENERAL INFORMATION:

; APPLICANT: FRADELIZE, JULIE

; APPLICANT: FRIEDERICH, EVELYN

; APPLICANT: LOUWARD, DANIEL

; APPLICANT: NOIREAUX, VINCENT

; APPLICANT: SYKES, CECILE

TITLE OF INVENTION: PEPTIDE SEQUENCES COMPRISING ONE OR MORE UNITS BINDING FILE REFERENCE: 0508-1032

CURRENT APPLICATION NUMBER: US/10/239,431A

CURRENT FILING DATE: 2002-09-23

PRIOR APPLICATION NUMBER: PCT/FR01/00843

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: FR 00/036337

PRIOR FILING DATE: 2000-03-22

NUMBER OF SEQ ID NOS: 38

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 38

LENGTH: 574

TYPE: PRT

US-10-001-857-42 (1-3096) x US-10-239-431A-38 (1-574)

```

QY      544 CTCCCGTGGTACCCGGGCCACGCACTGTCCGGACCAGGAATAACGACGCCCT 485
Db      336 LeuProProProProProProProArgSerAsnAlaAlaGlySerIleLeuProPro 355
QY      484 CGG-----CGCCCCCCCCTCAGCCAGCCCACGGCAGCGT 437
Db      356 GlnGlyArgSerAlaProProProProProProProArgSerAla---ProSerThrGlyArg 374
QY      436 GCACCGCATGCGTATGCCGGACCGCGC-----GACCCGCCCCCTCCCTTA 389
Db      375 GlnProProProLeuSerSerSerArgAlaValSerAsnProProAlaProProAla 394
QY      388 CTCCCGGGACTTCGGCTCCCCGGCACACC----- 356
Db      395 IleProGlyArgSer---AlaProAlaLeuProProProLeuGlyAsnAlaSerArgThrSer 413
QY      355 -----CCTCCCTCGCCACCGCCTCCGTTGGCCGA 326
Db      414 ThrProProValProThrProProSerIleLeuProProSerAlaProProSerLeuProPro 433
QY      325 TGGCGGCCGCCCTCTCTCGGAGATTAGAGACCGATCGCGAGACCGGAAGTTATCTT 266
Db      434 SerAlaProProSerIleLeu----PrometGlyAlaProAlaAlaProPro 451
QY      265 TTTCACCTCTGTCGGACTCTGGTAGTGGC----- 227
Db      452 SerAlaProIleAlaProProLeuProAlaAlaProProProLeuProPro 471
QY      226 CGGAAAGAGGGGGAGGCCGGAGTCTCAGAGCCGCCGTGCCTCTGGGAAT 167
Db      472 AlaAlaProAlaProProProAlaProAlaProAlaAla---ProValAlaSer 490
QY      166 TTCTTAGAAAGGTGACGCGAAGGGGAAGG 137
Db      491 IleAlaGluLeuProGlnGlnAspGlyArg 500

RESULT 5
US-09-858-155A-2
; Sequence 2, Application US/09858155A
; Patent No. US20020137049A1
; GENERAL INFORMATION:
; APPLICANT: Mark, Robert
; APPLICANT: Young, Kathleen H.
; APPLICANT: Wood, Andrew
; TITLE OF INVENTION: PABLO, A POLYPEPTIDE THAT INTERACTS WITH BCL-XL, AND
; TITLE OF INVENTION: USES RELATED THERETO
; FILE REFERENCE: GNN-005
; CURRENT APPLICATION NUMBER: US/09/858,155A
; CURRENT FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-858-155A-2

Alignment scores:
Pred. No.: 0.00942 Length: 559
Score: 145.00 Matches: 48

```


QY 454 CAGCCGGACCGGCAGCGTGCACGCATGCCATGCCATGCCGGGACGGGACCCC-----GCC 401
Db 334 AlaLeuSerThrSerSerLeuArgAlaSerMetThrSerThrProProProValPro 353
QY 400 CCCTCTCCCTACTCCGGACTTCG---CGCTCCCCGGCACACCCCT----- 353
Db 354 ProProProProProProAlaThrAlaLeuGlnAlaProAlaValProProProAla 373
QY 352 -----CCCTGCCACCG-----CCTCCGTC 332
Db 374 ProLeuGlnilealaProGlyValleuHisProAlaProProProileAlaProProleu 393
QY 331 GCCCGATGGGGCCCTCTCTCGGAGATTAGAGAGCATGGAGACGGATCGCGAGACGGAAAGTT 272
Db 394 ValGlnProSerProPro-----ValAlaArgAlaAlaProValCys-----Gluthr 409
QY 271 ATCTTTTCACCCCTCTGGAGTCTGGGTAGTGGGGTCCGGAAAGAGGGAG 212
Db 410 ValProValHisProLeuProGlnGlyGluValGlnGlyLeuProProProProPro 429
QY 211 CCCGGAGTCTAGAGCCCCGGCTGCGCTGCCCT 173
Db 430 ProProleu-----ProProProGlyIleArgProSer 440

RESULT 8

; Sequence 2, Application US/10116370
; Publication No. US20030190709A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth
; TITLE OF INVENTION: PABLO, A POLYPEPTIDE THAT INTERACTS WITH BCL-XL, AND
; TITLE OF INVENTION: USES RELATED THERETO
; FILE REFERENCE: AM100012-D2
; CURRENT APPLICATION NUMBER: US/10/116,370
; CURRENT FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-116-370-2

Alignment Scores:
Pred. No.: 0.00942 Length: 559
Score: 14.500 Matches: 48
Percent Similarity: 40.52% Conservative: 14
Best Local Similarity: 31.37% Mismatches: 61
Query Match: 2.64% Indels: 30
DB: 12

US-10-001-857-42 (1-3096) x US-10-116-370-2 (1-559)

QY 559 CCATTATGCCTACTTCTCCGGTCAACCGGCCACGCACGTGCCGACCACGGAA 500
Db 294 ProThrCysIleSerSerAlaThrGlyLeuArgLeuAsnArgProGlnSerProAlaThr 313
QY 514 GTCGGGACACGGAATAACGACGCCCTCGGGCCGCCCTCCCTCTCAGCC 455
Db 314 GlyArgThrProValPheAlaSerMetThrProProProProProProleuPro 333
QY 454 CAGCCGGACCGGCAGCGCATGCCATGCCATGCCGGGACGGGACCCC-----GCC 401
Db 334 AlaLeuSerThrSerSerLeuArgAlaSerMetThrSerThrProProProProPro 353
QY 400 CCCTCTCCCTACTCCGGGACTTCG---CGCTCCCCGGCACACCCCT 353
Db 354 ProProProProProAlaThrAlaLeuGlnAlaProAlaValProProProAla 373
QY 352 -----CCCTGCCACCG-----CCTCCGTC 332
Db 374 ProLeuGlnilealaProGlyValleuHisProAlaProProProileAlaProProleu 393

RESULT 9

; Sequence 50, Application US/10001873
; Publication No. US20020160388A1

; GENERAL INFORMATION:

; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; APPLICANT: Turner, Leah
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and P:
; FILE REFERENCE: DEX-0275
; CURRENT APPLICATION NUMBER: US/10/001,873
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/252,055
; PRIOR FILING DATE: 2000-11-20
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 50
; LENGTH: 1134
; TYPE: PRT
; ORGANISM: Homo sapien
; US-10-001-873-50

Alignment Scores:
Pred. No.: 0.0145 Length: 1134
Score: 144.00 Matches: 53
Percent Similarity: 37.97% Conservative: 7
Best Local Similarity: 33.54% Mismatches: 64
Query Match: 2.62% Indels: 34
DB: 14 Gaps: 8

US-10-001-857-42 (1-3096) x US-10-001-873-50 (1-1134)

QY 559 CCATTATGCCTACTTCTCCGGTCAACCGGCCACGCACGTGCCGACCACGGAA 500
Db 976 ProLeuProLeuArgLeuProProleuProProProProProPro 988
QY 499 ATAACGGGCCCTCGGGCCGCCCTCCCTCTCA-----GCCAGCCCCAC 446
Db 989 --LeuProArgProHisProProProProProProProProProleuProProPro 1007
QY 445 CGGCAGGGTGCA-----CGCATGCCATGCCGGGACGGGACCCC-----GCC 401
Db 1008 GluThrArgThrLeuProAlaAlaArgThrMetArgGlnPro-----ProPro 1023
QY 400 CCCTCTCCCTACTCCGGGACTTCG---CGCTCCCCGGCACACCCCT 344
Db 1024 ProArgLeuAlaLeuProArgArgArgSerProProArgProProSerArgProAla 1043
QY 343 -----CGCTCCGTCGCGGATGCCACACCCCTCCCTCGCCA----- 299
Db 1044 ArgArgGlyProArgProGlnAlaArgArgArgProArgProArg 1063
QY 298 TTAGAGGATCGCGAGACGGAAAGTTATCTTCAACCTCTGCGGAGTCGGTA 239
Db 1064 Leu-----LeuArgSerPro-----HisSerLeuCysSerProArgLeu 1076

PRIOR FILING DATE: 2002-02-19
 PRIOR APPLICATION NUMBER: PCT/CA00/00966
 PRIOR FILING DATE: 2000-08-18
 PRIOR APPLICATION NUMBER: US 60/149,466
 PRIOR FILING DATE: 1999-08-19
 PRIOR APPLICATION NUMBER: US 60/159,122
 PRIOR FILING DATE: 1999-10-13
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 5
 LENGTH: 721
 TYPE: PRT
 ORGANISM: Brassica napus
 US-10-086-464-5

Alignment Scores:
 Pred. No.: 0.0178 Length: 721
 Score: 142.00 Matches: 58
 Percent Similarity: 37.04% Conservative: 22
 Best Local Similarity: 26.85% Mismatches: 75
 Query Match: 2.58% Indels: 61
 DB: 14 Gaps: 10

US-10-001-857-42 (1-3096) x US-10-086-464-5 (1-721)

QY 788 TGGTTCCAATCATGCCAGCATCCATTGGATCCATTCATAATGCAGACATGGCT 729
 Db 4 TrpSerProCysLeuLeuUserSerProAlaAlaSerPheHisSerLeu----- 19

QY 728 TCAAAAGACCAAATAGCTTATCATGAAGTAGTAGTCTCCAACTTAATCTCGAACAGCT 669
 Db 20 -----HisLeuProPheArgSerLysGluAla 29

QY 668 TCTTCAAATCTGGTAAATGTCACCCAGTTGTATGCTTTCTCCATTCTCTGGC 609
 Db 30 AspMetSerSer-----AlaProSerProGlySerLysGluAla 29

QY 608 ATACTGAGCTCCATCTGAATGTCATCATCTACA----GAAGCTTCATAACCATT 555
 Db 41 SerProProSerProProSerAsnSerThrThrThrThrProProProAlaSerAlaPro 60

QY 554 ATGCCTACTTCTCCGGTGTCAACCGCCGCCCCACGCACAGTGTCCGGACCC----- 506
 Db 61 ProProThrThrProSer-SerProProProProSerThrleuProThrSerProPro 80

QY 505 -ACGAAATAACGACGCCCTCGGCCGCCCTCCCTCAAGCCAGCCGA 447
 Db 80 oSerSerArgSerThrProSerAlaProProProSerProProThrProSerProPro 100

QY 446 CCGGCAGCGTGCACGCATGGTATGCCGGGACGGGGACCCGGC--CCCTCTCCCT 390
 Db 100 ySerPro-----ProProIeuProGlnProSerProProAlaPro 114

QY 389 ACTCCGGGACTTCGGCTCCCCGGCCACACCCCTCCCTGCCACGGCTCCGTC- 332
 Db 114 rThrProGlySerProProAlaProValThrProProThrArgAsnProProSerVa 134

QY 331 ---GGCCGATGGGGGGCTCTCTGGAGATTAGAGACGATGCCGAGACCGGA 276
 Db 134 1ProGly-----ProProSer 139

QY 275 AGTTATCTTTCACCCCTCTGCGAGTCTGGTAGTGGGGTCCCAGAAGAGGC 216
 Db 140 -----AsnProSerArgGluGly-----GlySerProArgProProSe 152

QY 215 GGAGCCGGAGCTCAGAGCCCCGGCTGGCTGCCCTCTGG 170
 Db 152 rSerProSerProProSerProSerAspGlyIeuSerThrGly 167

RESULT 12
 US-10-142-515-11
 ; Sequence 11, Application US/10142515
 ; Publication No. US20030078399A1

; GENERAL INFORMATION:
 ; APPLICANT: SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH
 ; APPLICANT: Lloyd, Kenneth O.
 ; APPLICANT: Yin, Beatrice W.T.
 ; TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Use:
 ; FILE REFERENCE: 649-A-US
 ; CURRENT APPLICATION NUMBER: US/10/142,515
 ; CURRENT FILING DATE: 2002-07-23
 ; PRIOR APPLICATION NUMBER: US 60/290,480
 ; PRIOR FILING DATE: 2001-05-11
 ; NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 11
 ; LENGTH: 5877
 ; TYPE: PRT
 ; ORGANISM: Human Being
 ; FEATURE:
 ; NAME/KEY: MISC_FEATURE
 ; LOCATION: (1)-(5877)
 ; OTHER INFORMATION: Amino acid sequence of MUC16B
 US-10-142-515-11

Alignment Scores:
 Pred. No.: 0.0404 Length: 5877
 Score: 141.50 Matches: 148
 Percent Similarity: 31.86% Conservative: 76
 Best Local Similarity: 21.05% Mismatches: 266
 Query Match: 2.57% Indels: 213
 DB: 15 Gaps: 27

US-10-001-857-42 (1-3096) x US-10-142-515-11 (1-5877)

QY 2237 CTTCATTATCCTTCTCTGCCATTGAGAGCCATCGGCACGACTCAATGTTGACATCA 2178
 Db 713 LeuthrLeuAspThrSerThrThrPhemetSerGlyThrHis-----Ser 727

QY 2177 ACCATGGTAAAGGAATTCAAGGAGATACCAATAATGTAATAGTACTCGTGCACTGT 2118
 Db 728 ThrAlaSerGinGlyPheSerHisSerGlnMetThrAlaLeuMetSerArgThrProGly 747

QY 2117 AGAGTTCCAATTCAAAGCCACTTAGAAGGTACTGTATCATATAATGCAAGGTTATGGTAA 2058
 Db 748 GluValProTrpLeuSerHisProSer-----ValGluGluAlaSerSer 762

QY 2057 GGACCCAGGTACCTAACAGCCAAATGGTGCCTTGGGTCTCTGTTCAACAGCATGG 1998
 Db 763 AlaSerPheSerSerLeuUserSerSerProValMetThrSerSerSerProValSerSerThrLeu 782

QY 1997 TGTGAAGCGCTGCATCAACCTCTCTGCCTATAATAAATGCTAACTCATCCG 1938
 Db 783 ProAspSerIleHisSerSerSerLeuProVal----- 793

QY 1937 CAAGGGCAAATTCCTCAAGAATATGCCAACAGCTATCTCTGCGAGCCCTGTTG 1878
 Db 794 -----ThrSerLeuLeuThr-----SerGlyLeuVal 803

QY 1877 TCCATGGATCTGAATAAGACTACAGAACAGCTATCTCTGCGAGCTGGTAAACAGGAGTCGAT 1818
 Db 804 ThrThrGluLeuLeuGlyThrSerSerGluProGluThrSerSerProAsnLeuUser 823

QY 1817 ACAGTCTTAGCCTGGTATTATAGGTAGCCTGGGGAAAGCACTCGGAGGAT 1758
 Db 824 SerThrSerAlaGluLeuLeuAlaThrThrAspThrGlyIuLysLeuGlu 843

QY 1757 CTGACAAAAGACCGAAGTGCATCTTCACCATGTCATGAGATGAGTCTCAAGAAC 1698
 Db 844 MetThrAsnValValThrSerGlyTyrThrHisGluSer-----ProSerSer 859

QY 1697 TTTTGTATCC-----ACCAAGAAAGTGGTTGTAACAGAGATCTGAAAGAACACAT 1644
 Db 860 ValLeuAlaAspSerValThrThrLysAlaThrSerSerMetGlyIleThrTyrProThr 879

QY 1643 GGTGACTGTTCACTAAATTCA-----CAGAAAATCCAGGATAACAATG 1599

Db 880 GlyAspThrAsnValLeuThrSerThrProAlaPheSerAspThrSerArgIleGlnThr 899
 Qy 1598 AAATTGGTTAAATTCAACACCTCACAGACAGTTTATTCTATCTATTAACTCTGCAAA 1539
 Db 900 Lys-----
 Qy 1538 TAGTTCACCATTTCTCCCTTTAATTATTGGCATATGGAGGAAGGTAGGTGAAGT 1479
 Db 901 -----
 Qy 1478 AGCTCTGGTTCACAAGGGGTCAAAACCCATAATTGGATGATCTCCTTTGTAGTA 1419
 Db 902 LysLeuSerLeuThrProGly-----
 Qy 1418 TCATTCTGGGCTGGATGCCATGCAATGAAATTGAAATTGGCAGAAAGAGATCTGCT 1359
 Db 909 -----
 Qy 1358 GCTGAAACCATAATTTGAGCTCTGCAACAGCACTGGCTCTTCTTAGTAAGGCT 1299
 Db 921 Ala-----
 Qy 1298 ATAAGCACTGTCAGTAACACACAGGATAATTCAACTCTGCTGAATACTGCTAACATGT 1239
 Db 936 ThrThrGluValSerArgThrGlu-----
 Qy 1238 TGGTGTCTAGTCAACTCTGGATCTCTCTCTCGACTTCGAGTACTCTT 1179
 Db 944 ---AlaLeuSerSerSerArgThrSerIleProGlyProAlaGin-----
 Qy 1178 ACTCTCTCTTGATGTCATCCTCCACATCT-----TTAGCATGCCT 1137
 Db 958 -----SerThrMetSerSerAspThrSerMetGluThrIleThrArgIleSerThrPro 975
 Qy 1136 GTAACTCGAAGGACTGTCAACTGTTAGCCATTAAATCCATAAGTCATTGACTGAAA 1077
 Db 976 LeuThrArgLysGluSerThrAspMetAlaIle---ThrPro-----Lys 989
 Qy 1076 TCTTCCTCTCAAACAGCAGCTTATTACTTTCCCTGCAATGTCACAGATRTC 1017
 Db 990 ThrGlyProSerGlyIalaThrSerGlyIleThrPheThrIleAspSerSerThrAla 1009
 Qy 1016 AAGATTCCCAGAGCAAAGCCTTCATAGCAGGACTCTATAAAGTCGGATTATGAAATG 957
 Db 1010 SerTrpPro-----GlyThrHisSerAlaThrThrGlnArgPhe 1022
 Qy 956 TAAGGCACGTAAATCTGTCGCGACT-----GAATGGCTCT 915
 Db 1023 ProArgSerValValThrProMetSerArgGlyProGluAspValSerTrpProSer 1042
 Qy 914 AAC---CACGTATCACAAACAGCAAAACATGTATCCATACAGTTCAAGCAAG 858
 Db 1043 ProLeuSerValIglLysAsnSerProProSerSerLeuValSerSerSerValThr 1062
 Qy 857 GTGAGATCTTAAATTAAATAGTGCCATCCTGTCAAAATTGAGACTTR 798
 Db 1063 SerProSerProLeuTyrosSerThrProSerSerHisSer-----
 Qy 797 CGATTAAC TGTTCCAATCATGCCAGCATCCATCTGGGATCCATTCAAGCA 738
 Db 1079 -----ProValProValIleThrSerLeuPheThrSerIleMetMetLysAla 1093
 Qy 737 ---GACATG----GCTTCAAAAGACCAATAAGCTTATCATGAAGTAGTGTCTCCCAAC 687
 Db 1094 ThrAspMetLeuAspAlaSerLeuLeuGluProGluThr-----ThrSerAlaProAsn 1110
 Qy 686 TTAATTCTCGACAAGCTCTCAAAATCTGGTAATGTCACCCAGTTGTATTGCTT 627
 Db 1111 MetAsnIleThrSerAspGluSerLeuAlaAlaSerLysAlaThrGluThrGluAla 1130
 Qy 626 TTCTCCATTCTGGCATACTGAGCTCCATCTGAATGTCATCATCTACAGAGCT 567
 Db 1131 IleHisValPheGluAsnThrAlaAlaSerHisValGluThrThrSerAlaThrGluGlu 1150
 Qy 566 TTCATACATTATGCCT-----ActTCTCCCGTGGTCACC 531
 Db 1151 LeuThrSerSerSerProGlyPheSerGluProThrLysValLeuSerProValValThr 1170
 Qy 530 CGGCCGACGCACTGTCCGGACCACGGAAATAACGACGCCCTGGCCGCCGCC 471
 Db 1171 -----
 Qy 470 CCTCCCTCTCAGCCAGCCGACGGTGACCGCATGGTATGCCGTATGCCGGACCG 411
 Db 1176 AspAsnMetValSerThrThrMetProGly-----SerSerGlyIleThrArgileGlu 1193
 Db 901 -----
 Qy 410 CGACCCGCCCTCCGTCGGCGATGGCCATGGCAGAAAGAGATCTGCT 1359
 Db 908 LeuMetGluThrSerIleSerGluGluThrSer 920
 Qy 350 CTCGCCACCGCCCTCCGTCGGCGATGGCCATGGCAGAAAGAGATCTGCT 1299
 Db 1194 IleGluUserMetSerSerIleThrProGly-----
 Qy 350 CTCGCCACCGCCCTCCGTCGGCGATGGCCATGGCAGAAAGAGATCTGCT 1239
 Db 935 ThrGlyIleThrArgIleLeuThrArgileGlu 1239
 Qy 290 GATCGGAGACCGAAGTTATCTTTTACCCCTCTGTCGGAGCTGGTAGTGGGG 231
 Db 1216 SerThrGluThrSerThrValLeuThrIleThrArgIleLeuThrArgileGlu 1239
 Qy 230 TTCCCGAA 222
 Db 1231 ThrProGlu 1231
 Db 1231 ThrProGlu 1233
 Qy 957 -----
 RESULT 13
 US-10-243-243A-8
 ; Sequence 8, Application US/10243243A
 ; Publication No. US20030104442A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lloyd, Kenneth O.
 ; APPLICANT: Yin, Beatrice W.T.
 ; TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Use:
 ; FILE REFERENCE: 649-B
 ; CURRENT APPLICATION NUMBER: US/10/243,243A
 ; CURRENT FILING DATE: 2002-09-19
 ; PRIOR APPLICATION NUMBER: US 10/142,515
 ; PRIOR FILING DATE: 2002-05-09
 ; PRIOR APPLICATION NUMBER: PCT/US02/14768
 ; PRIOR FILING DATE: 2002-05-09
 ; PRIOR APPLICATION NUMBER: US 60/290,480
 ; PRIOR FILING DATE: 2001-05-11
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 8
 ; LENGTH: 5935
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: MISC_FEATURE
 ; LOCATION: (1)..(5935)
 ; OTHER INFORMATION: Amino acid sequence of MUC16B
 ; US-10-243-243A-8
 Alignment Scores:
 Pred. No.: 0.0406 Length: 5935
 Score: 141.50 Matches: 148
 Percent Similarity: 31.86% Conservative: 76
 Best Local Similarity: 21.05% Mismatches: 266
 Query Match: 2.57% Indels: 213
 DB: 15 Gaps: 27
 US-10-001-857-42 (1-3096) x US-10-243-243A-8 (1-5935)
 Qy 2237 CTTCATTCCTCTGGCATTGAGGCCATGGCACGACTCAATGTTGACATCA 2178
 Db 784 LeuThrLeuAspThrSerThrPheMetSerGlyThrHis-----Ser 798

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 21:46:55 ; Search time 6196 Seconds

(without alignments) 12144.393 Million cell updates/sec

Title: US-10-001-857-42

Perfect score: 3096

Sequence: 1 ttccctcacgaaactccccagg.....atttcttgacaaaaaaaaa 3096

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters:

45562784

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:*

1: em_estba:*

2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_p1n:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gssi:*

29: gb_gss2:*

ALIGNMENTS

RESULT 1
BC027201
LOCUS BC027201
DEFINITION Mus musculus, Similar to corneal wound healing related protein, mRNA.
CLONE IMAGE:4483189, mRNA.
ACCESSION BC027201
VERSION BC027201.1 GI:20070883
KEYWORDS HTC.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 1033)
REFERENCE Strausberg R.
AUTHORS Direct Submission
TITLE Submitted (04-APR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The T.M.A.G.E. Consortium (LTNL)
DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	795	25.7	1033	11 BC027201
2	777.8	25.1	973	11 AK021042
3	705	22.8	722	12 BM979022
4	696.8	22.5	854	10 BF969365

Center code: BCM-HGSC	Qy	1141 ATGCTAAAGATGTGGAGGATGACATGCCAAGAACAGTAAGAGTACTCGAAGTCGACAA 1200
Web site: http://www.hgsc.bcm.tmc.edu/cdna/	Db	654 ATGCTAAAGGATGTGGAAGATCTGCAAAGGCAGTAAGAGTACTCGAAGTCGACAA 713
Contact: amg@bcm.tmc.edu	Qy	1201 GGAGAAGAAAGAGATCCAGAAGTTGAACATAGAACACCAAAATGTTAGCAGTATTGAGC 1260
Gunarathne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Hale, S.M.,	Db	714 GGAGAAGAGAGATCCAGAGGTGCGAATAGAACACCAGCAGTGCTTGGCACATTGC 773
Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M.,	Qy	1261 AGAGTGAATTACTCGTGTACTGACAGTGTCTATAGCCTTACTAAGAACAGACC 1320
Richards, S., Gibbs, R.A.	Db	774 AGAGTGAAGTCACGGAGTGTCTCACAGTGCTCATAGCCTTACTAAGAACAGACC 833
Clone distribution: MGC clone distribution information can be found	Qy	This clone was selected for full length sequencing because it
through the I.M.A.G.E. Consortium/LINL at: http://image.lnl.gov	Db	passed the following selection criteria: Similarity but not
Series: IRAK Plate: 31 Row: 1 Column: 19	Qy	identity to protein
This clone has the following problem: frame shifted.	Db	714 . Location/Qualifiers
FEATURES	source	1. .1033
		/organism="Mus musculus"
		/mol_type="mRNA"
		/strain="FVB/N"
		/db_xref="IMAGE:4483189"
		/tissue_type="Mammary tumor. Metallothionin-1/TGF alpha
		model. 10 month old virgin mouse. Taken by biopsy."
		/clone_lib="NCI CGAP_Mam1"
		/lab_host="DH10B"
		/note="Vector: pCMV-SPORT6"
BASE COUNT	a	216 . note="Vector: pCMV-SPORT6"
ORIGIN	c	272 . note="Vector: pCMV-SPORT6"
ORIGIN	t	242 . note="Vector: pCMV-SPORT6"
Query Match	25.7%	Score 795; DB 11; Length 1033;
Best Local Similarity	88.3%	Pred. No. 4.2e-133;
Matches	864	Matches 0; Mismatches 115; Indels 0; Gaps 0;
Qy	541 GGAGAAGTAGGCATAATGTTATGAGCTCTGTAGATGACGATTCAGGATGGAG 600	Db 54 GGCGGGACGGCATCATGGTATGAAAGCTACTGTAGACGAGGTCTGGATGGAG 113
Qy	601 CTCAAGTATGCCAGAAAATGGAGAAAGCAATACAACCTGGTGGACATTACCAAGAT 660	Db 601 CTCAAGTATGCCAGAAAATGGAGAAAGCAATACAACCTGGTGGACATTACCAAGAT 173
Db	114 CTGGGGTCCCCGAAAAATGGAAAAAGTAGCACAAGCTGGTGGACATAACCCAGGAT 173	Db 114 CTGGGGTCCCCGAAAAATGGAAAAAGTAGCACAAGCTGGTGGACATAACCCAGGAT 173
Qy	661 TTGAGAAGGCTTGTGAGAATTAAGTGGAGAAACTACTTCATGATAAGCTATTGGT 720	Db 661 TTGAGAAGGCTTGTGAGAATTAAGTGGAGAAACTACTTCATGATAAGCTATTGGT 720
Db	174 TTGAAAGATGCTTGTGAGAGCTGCTCATGATAAGCTGTTGGT 233	Db 174 TTGAAAGATGCTTGTGAGAGCTGCTCATGATAAGCTGTTGGT 233
Qy	721 CTTTTGAAGCCATGTCGTCTGTTGATGATGCCAAGATGGATGCTGGCATGATT 780	Db 721 CTTTTGAAGCCATGTCGTCTGTTGATGATGCCAAGATGGATGCTGGCATGATT 780
Db	234 CTTTTGAAGCCATGTCGTCTGTTGATGATGCCAAGATGGATGCTGGTATGTC 293	Db 234 CTTTTGAAGCCATGTCGTCTGTTGATGATGCCAAGATGGATGCTGGTATGTC 293
Qy	781 GGAAACCAAGTAAATCGAAAGTCTCAATTGAGCTATCAAGGATGGACTATT 840	Db 781 GGAAACCAAGTAAATCGAAAGTCTCAATTGAGCTATCAAGGATGGACTATT 840
Db	294 GGGAAACCAAGTGAATGAAAGTTCTCAATTGAGCTATCAAGGATGGACATT 353	Db 294 GGGAAACCAAGTGAATGAAAGTTCTCAATTGAGCTATCAAGGATGGACATT 353
Db	354 AAATTAAGAACCTCAGCTGCCTGACTGATAAGTAATGGACACCTGTTCTGCT 413	Db 354 AAATTAAGAACCTCAGCTGCCTGACTGATAAGTAATGGACACCTGTTCTGCT 413
Qy	901 TGTATAACGTGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATT 960	Db 901 TGTATAACGTGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATT 960
Db	414 TGATCACATGGCTCGAAGGCCATTCTGGCACAGACTGTTACGTGCTTACATT 473	Db 414 TGATCACATGGCTCGAAGGCCATTCTGGCACAGACTGTTACGTGCTTACATT 473
Qy	961 CATAATCCAGACTTATAGAAGATCCCTGCTATGAGGCTTGTGCTCTGGAA 1020	Db 961 CATAATCCAGACTTATAGAAGATCCCTGCTATGAGGCTTGTGCTCTGGAA 1020
Db	474 CATAATCCCGACTTCATAGAAGATCCCTGCTCTGGAA 533	Db 474 CATAATCCCGACTTCATAGAAGATCCCTGCTCTGGAA 533
Qy	1021 ATCGTGTGACATGCAAGGAAAGTAAAGCTGCTTGTGAGAGGAGTT 1080	Db 1021 ATCGTGTGACATGCAAGGAAAGTAAAGCTGCTTGTGAGAGGAGTT 1080
Db	534 ATCTGGACATTCGCACGGGAAAGTAATAAGCTGCTGTTTCGAAGAGGAATTC 593	Db 534 ATCTGGACATTCGCACGGGAAAGTAATAAGCTGCTGTTTCGAAGAGGAATTC 593
Qy	1081 CAGTCAATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGACTACAGGC 1140	Db 1081 CAGTCAATGACTTATGGATTAAATGGCTAACAGTGTGACAGATCTCGACTACAGGC 1140
Db	594 CAGTCAATGACATACGGATTAAATGCCAACAGTGTGACAGATCTCCGAGTTACAGGG 653	Db 594 CAGTCAATGACATACGGATTAAATGCCAACAGTGTGACAGATCTCCGAGTTACAGGG 653

Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Battalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G.,	/sex="male"
Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M.F., Brownstein, M.J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D.A., Kamiya, M., Lee, N.H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H., Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K.F., Suzuki, H., Toyo-oka, K., Wang, K.H., Weltz, C., Whittaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohtsuki, S., and Hayashizaki, Y.	/tissue-type="corpus striatum"/clone-Tib="RIKEN full-length enriched mouse cDNA library"/dev-stage="adult"
Functional annotation of a full-length mouse cDNA collection	24. .>971
Nature 409 (6821), 685-690 (2001)	[Rattus norvegicus] (SPTR Q9J101, evidence: FASTY, putative" /db-xref="MGI:1925939"
BASE COUNT	285 a
ORIGIN	202 c
21085660	250 g
11217851	236 t
5	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs	/note="CORNEAL WOUND HEALING RELATED PROTEIN homolog [Rattus norvegicus] (SPTR Q9J101, evidence: FASTY, 96.2%ID, 43.5%length, match=948)"
Nature 420, 563-573 (2002)	
6 {bases 1 to 973}	
Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hara, A., Hayashi, N., Hiramoto, K., Hiraoka, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shibata, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Tejima, Y., Toya, T., Yamamura, T., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.	
Direct Submission	
Submitted (18-AUG-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)	
Please visit our web site (http://genome.gsc.riken.go.jp/) for further details.	
CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer (5' GAGAGAGAGGATCCAGAGCTCTTTTTVN 3'), cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through two rounds of normalization to Rot = 20.0 and subtraction to Rot = 478.8. Second strand cDNA was prepared with the primer adapter of sequence [5' CAGTCAATCCGACTTCATAGAAGATCCTGCATCAAAGCTTACAGGG 3']. cDNA was cleaved with BamHI and XbaI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC 1. Cloning sites, 5' end: SalI; 3' end: BamHI. Host: DH10B.	
Location/Qualifiers	
1. .973	
/organism="Mus musculus"	
/mol-type="mRNA"	
/strain="C57BL/6J"	
/db_xref="FANTOM DB:C030004C14"	
/db_xref="MGI:1912689"	
/db_xref="taxon:10090"	
/clone="C030004C14"	
QY	1261 AGAGTGAATTACTCGTGTACTGACAGCTTACAGGTTACAGGC 1320
Db	729 AGAGTGAAGTTCACCGCAGGTGCTCACAGTGCTCATGCCCTTAAGAAGACC 788
QY	1321 AGTGTCTGTGAGAGCTCAAATGATGGTTAAGCAGATCTTCTGCCATT 1380
Db	609 ATGATAAAGGATGTGGAAGATGATCTGCCAACAGCGAGTAAGACTTGACACAA 668
QY	1201 GGAGAAGAAGAGATCCAGAGCTGAACAGACCAATGTTAGCAGTTCAGC 1260
Db	669 GGAGAAGAAGAGATCCAGAGCTGAACAGACCAACCCGAGCTGGCAGCATTCAGC 728

QY	1381 CATAATTCTATGGCATCATGGCATCCAGGCCAGAAATGATACTACAAAGGAGTCATCCA 1440	TAG TISSUE=Lung Epithelial Cells	Tissue nos 359-368
QY	849 CACACCTCATTGCACCAAGGCATCCAGGCTCAGAATGGCACTACCAAGGAGACATCCA 908	TAG_SEQ=GGCTGTAGGC"	
Db	1441 ATTATGATGGGTTTGAAACCCCTTGTGAACAGAGGCTACTCACCTACCTTCCCCTGA 1500	BASE COUNT	215 a 147 c 124 g 236 t
Db	909 ATTATGATGGGTTTGAGCCCTTGTAAACAGAGATTACTTCAACCCACCTTCCCTCGC 968	Query Match	22.8%; Score 705; DB 12; Length 722;
Db	969 TATGC 973	Best Local Similarity	99.9%; Pred. No. 7.2e-117;
Db		Matches	716; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Db		ORIGIN	
QY	RESULT 3		
QY	BM979022/c	BM979022	
DEFINITION	UI-CF-DUL-adl-c-13-0-UI.s1	722 bp mRNA linear EST 21-FEB-2003	
ACCESSION	UI-CF-DUL-adl-c-13-0-UI 3'	UI-CF-DUL Homo sapiens cDNA clone	
VERSION	BM979022		
KEYWORDS	BM979022.1 GI:19599047		
SOURCE	EST.		
ORGANISM	Homo sapiens (human)		
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
1 (bases 1 to 722)			
Bonaldo,M.F., Lennon,G. and Soares,M.B.			
Normalization and subtraction: two approaches to facilitate gene discovery			
Genome Res. 6 (9), 791-806 (1996)			
JOURNAL			
MEDLINE	9704477		
PUBMED	889548		
COMMENT	Contact: McCray, PB		
McCray Lab			
University of Iowa			
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA			
Tel: 319 356 4866			
Fax: 319 356 7171			
Email: paul-mccray@uiowa.edu			
Tissue Procurement: Dr. M. J. Welsh, University of Iowa			
cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa			
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa			
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa			
Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com) or from Open Biosystems (www.openbiosystems.com).			
Seq primer: M13 FORWARD			
POLYA=Yes.			
FEATURES	Location/Qualifiers		
source	1. 722		
/organism="Homo sapiens"			
/mol_type="mRNA"			
/db_xref="taxon:9606"			
/clone="UI-CF-DUL-adl-c-13-0-UI"			
/tissue_type="Primary Lung Epithelial Cells"			
/dev_stage="Adult"			
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"			
/clone_lib="UI-CF-DUL"			
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site_1: EcoR I; Site_2: Not I; UI-CF-DUL is a normalized cDNA library containing the following tissue(s): Primary Lung Epithelial Cells The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The Oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCTGTAGGC.			
QY	2440 TGCTCCATTCAACAGTGTGATGACCCCCGCCAGTGCACACTTACAGTCAAGGAAT	2440	
Db	663 TGCTCCATTCAACAGTGTGATGACCCCCGCCAGTGCACACTTACAGTCAAGGAAT	604	
QY	2500 GTCTGACTCTCAAATAATAGCCCTCTCAGTCTCTGAACTGTATGTGGCAGCTAG	2559	
Db	603 GTCTGACTCTCAAATAATAGCCCTCTCAGTCTCTGAACTGTATGTGGCAGCTAG	544	
QY	2560 TAAGCACTTCAACAGGCAAATGATAATTGGAAATATTCTAACCGGACCATGAGGT	2619	
Db	543 TAAGCACTTCAACAGGCAAATGATAATTGGAAATATTCTAACCGGACCATGAGGT	484	
QY	2620 TAATAGAATTAAAGGTTGCCAACCAACTTGTGGTATGAAGTTATGGCAGGAGG	2679	
Db	483 TAATAGAATTAAAGGTTGCCAACCAACTTGTGGTATGAAGTTATGGCAGGAGG	424	
QY	2680 ACACAAAAGGAATCTAAAGGTTCTCTGAATTGTCTCTGCTCATAAATATTTC	2739	
Db	423 ACACAAAAGGAATCTAAAGGTTCTCTGCTCATAAATATTTC	364	
QY	2740 TGTGTGTGAACTGTGTTGAGAGAGCTGGGAGGTGGCCATAAGGGCAGAGTCTT	2799	
Db	363 TGTGTGTGAACTGTGTTGAGAGAGCTGGGAGGTGGCCATAAGGGCAGAGTCTT	304	
QY	2800 TCAGACCCAACCTTAGAGGCCACATCACCAGGCTCCACATCACGGGAAGTGAGATGGT	2859	
Db	303 TCAGACCCAACCTTAGAGGCCACATCACGGGAAGTGAGATGGT	244	
QY	2860 TTCTTGGTAACAACATCATTATAAGGAATACTTTAGTTGACAGCCTTATGACATGA	2919	
Db	243 TTCTTGGTAACAACATCATTATAAGGAATACTTTAGTTGACAGCCTTATGACATGA	184	
QY	2920 ATGAAAACCTGTGTTAAAGGTTTATTATGTTCCATGGAAGAAACTGGTTATTG	2979	
Db	183 ATGAAAACCTGTGTTAAAGGTTTATTATGTTCCATGGAAGAAACTGGTTATTG	124	
QY	2980 ATGCATATTGAAACGTTATAGGTTTATTACAGATTAAATCACAATTTATG	3039	
Db	123 ATGCATATTGAAACGTTATAGGTTTATTACAGATTAAATCACAATTTATG	64	
QY	3040 ATGATTGAGTGAACATTAGTGTATAAGGTTATAAATTCTTGACAAAAAAA	3096	
Db	63 ATGATTGAGTGAACATTAGTGTATAAGGTTATAAATTCTTGACAAAAAAA	7	
QY	RESULT 4		
QY	BF969365	BF969365	
DEFINITION	602271630F1 NIH_MGC_84	854 bp mRNA linear EST 22-JAN-2001	
ACCESSION	NIH_MGC_84	mRNA sequence.	
VERSION	BF969365		
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	1 (bases 1 to 854)		
AUTHORS	NIH-MGC http://mgc.ncbi.nih.gov/		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		

JOURNAL	Unpublished	QY	2844	GGGAAGTGAGATGGATTCTGGGTAACACTCATATAAGGAACTTTAG-TTGAC	2902	
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaps-r@mail.nih.gov	Db	601	GGGAAGTGAGATGGATTCTGGGTAACACTCATATAAGGAACTTTAGTTGAC	660	
Tissue Procurement:	ATCC	QY	2903	AGCCTTATGACA-TGAATGAAACTGTGTTAA-AGTGGTTATTATGTTCCAT-G	2959	
CDNA Library Preparation:	Life Technologies, Inc.	Db	661	AGCCTTATGACA-TGAATGAAACTGTGTTAA-AGTGGTTATTATGTTCCAT-G	660	
DNA Sequencing by:	Incyte Genomics, Inc.	QY	2960	GAAGAACTGGTCTTATGAAATGCATGTAACGTTATATGGTTTACAGATTAA	3019	
Clone distribution by:	The I.M.A.G.E. Consortium (LLNL)	Db	721	GACGAACATGGCTTATGAAATGGCTTGTGAAACG-TATATGGTTTACCGATTAA	778	
found through the I.M.A.G.E. Consortium/LLNL at:	http://image.llnl.gov	QY	3020	TCACAATCATTTATGAAATGATTGAGTGAACG-TATATGGTTTACCGATTAA	3079	
Plate: LLAM999 row: 1 column: 07	High quality sequence stop: 785.	Db	779	-TCCCCATCATTTATGAAATGATTG-GTGCACATCGGTTAACGTGATAAATTCTG	835	
FEATURES	Location/Qualifiers	QY	3080	TCTTGACAAAAAA	3095	
source	1. .854 /clone="IMAGE:4359702" /tissue_type="adrenal cortex carcinoma, cell line" /lab_host="DH10B (phage-resistant)" /clone lib="NIH MGC_84" /note="Organ: adrenal gland; Vector: pCMV-SPORT6; Site_1: NotI; Site 2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.229 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC library."	Db	836	CGCAAAACAA	851	
BASE COUNT	273 a 158 c 186 g 237 t	ORIGIN				
Query Match	22.5%; Score 696.8; DB 10; Length 854;	RESULT	5			
Best Local Similarity	94.5%; Pred. No. 2.1e-115;	CB169246/c				
Matches	809; Conservative 0; Mismatches 37; Indels 10; Gaps 8;	CB169246	814 bp	mRNA	linear EST 30-JAN-2003	
QY	2245 GAAAGGCCGTAGTAGTAAACAAAG-AAAAAGAAGTGGCCATTGAGCGAG	2303	VBB603020215.R1 CSEQFXN41	testes	Bos taurus cDNA, mRNA sequence.	
Db	1 GAAAGGCCGTAGTAGTAAACAAAGAAAAAGAAGTGGCCATTGAGCGAG	60	CB169246.1	GI:28155372		
QY	2304 AGATCACAAATGAGCCAAGGATATCAGAACATGTGTGCTGGATGTTAAACCATGGTAG	2363	DEFINITION			
Db	61 AGATCACAAATGAGCCAAGGATATCAGAACATGTGTGCTGGATGTTAAACCATGGTAG	120	ACCESSION			
QY	2364 CATTGACATGGACGGCAAAGTACGTAACCGAAGTTGAGCTTGATAGTGAACAAGTTC	2423	VERSION			
Db	121 CATTGACATGGACGGCAAAGTACGTAACCGAAGTTGAGCTTGATAGTGAACAAGTTC	180	KEYWORDS			
QY	2424 GGTATGAAACACAGTTGGCCATTCAACAGTGTGATGACCCGGCCAGTGCACACT	2483	SOURCE			
Db	181 GGTATGAAACACAGTTGGCCATTCAACAGTGTGATGACCCGGCCAGTGCACACT	240	ORGANISM			
QY	2484 TACAGTCAAGGAATGTGTGACCTCTAAATAATAGCCCTCTCTCAGTCTCTGAA	2543	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;			
Db	241 TACAGTCAAGGAATGTGTGACCTCTAAATAATAGCCCTCTCTCAGTCTCTGAA	300	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;			
QY	2544 TGTATGTGGCAGCTAGTAAGCACTTCAACAGGAAATGATATTGAAATATTCTA	2603	Bovidae; Bovinae; Bos.			
Db	301 TGTATGTGGCAGCTAGTAAGCACTTCAACAGGAAATGATATTGAAATATTCTA	360	REFERENCE			
QY	2604 ACCGGGACCATGAGGTTAATAAGATTAAAGGTGCAACCTTGTTATGTTATGA	2653	ADELSON, D.L. and GILL, C.A.			
Db	361 ACCGGGACCATGAGGTTAATAAGATTAAAGGTGCAACCTTGTTATGTTATGA	420	AUTHORS			
QY	2664 AGTTATGGCAGGAGACAAAGGAATCTAAAGTCTCTGAAATTGATTCTCTG	2723	JOURNAL			
Db	421 AGTTATGGCAGGAGACAAAGGAATCTAAAGTCTCTGAAATTGATTCTCTG	480	Unpublished			
QY	2724 CTCTAAATATTCTCTGTGTGAAACTGTGTGAGAGACTGGGGAGGGCCATAAA	2783	COMMENT			
Db	481 CTCTAAATATTCTCTGTGTGAAACTGTGTGAGAGACTGGGGAGGGCCATAAA	540	Contact: David L. Adelson			
QY	2784 GGGCAGAGCTCTTCAGACCAACTCTAGAGGGCACATCACCAGGCTCCACATCAC	2843	Animal Breeding and Genetics			
Db	541 GGGCAGAGCTCTTCAGACCAACTCTAGAGGGCACATCACCAGGCTCCACATCAC	600	Texas A&M University			
QY	2844 GGGAAGTGAGATGGATTCTGGGTAACACTCATATAAGGAACTTTAG-TTGAC	2902	USA			
Db	601 GGGAAGTGAGATGGATTCTGGGTAACACTCATATAAGGAACTTTAGTTGAC	660	TELEPHONE			
FEATURES	Location/Qualifiers	QY	1348 ATGGTCAAGCAGAGATCTCTCTGCGCATCATATTGATCATGGCATCAG	1407		
source	1. .814 /organism="Bos taurus" /mol_type="mRNA" /db_xref="taxon:9913" /tissue_type="testes" /clone lib="CSEQFXN41" testes"	Db	814 ATGGTCAAGCAGAGATCTCTCTGCGCATCATATTGATCATGGCATCAG	755		
QY	2844 GGGAAGTGAGATGGATTCTGGGTAACACTCATATAAGGAACTTTAG-TTGAC	2902	QY	1408 GCCAGAATGATACT-ACAAAGGAGATCATCCAAATTGATGGTTGACCCCTGT	1466	
Db	601 GGGAAGTGAGATGGATTCTGGGTAACACTCATATAAGGAACTTTAGTTGAC	660	Db	754 GCCCAGAATGACACTAACAAAGGAGACCATCCACATTGATGGTTGACCCCTGT	695	

	JOURNAL	Genome Res.	10 (10), 1617-1630 (2000)
	MEDLINE	20499374	
	PUBMED	11042159	
Qy	1467 GAACCAGAGGGCTACTTCCACCTACCTTCGATATGCCAAAATAATTAAAGGAAAGA 1526		
Db	694 TAACCAAGACTACTCCACCCACCTCCTCGATATGCaaaATAAAAGAGA 635		
Qy	1527 AATGGTGAACTATTGCAAAGATAATAGATAAGATAAAACTGTCTGTGAGGTGTGAA 1586		
Db	634 AATGGTCAACTATTTGCAAAGATAGATAAGATAAAACTGTCTGTGAGGTGTGCAA 575		
Qy	1587 TTTAACAAATTACATTTGATTCCTGAGTTTGATTCCTGTAATTAGTAGACAGTCACCATG 1646		
Db	574 TTAAACAATTACATTTGATCTGGATCTTACAAACACTTCTGGTACAGATAACAAAGGTCTGG 515		
Qy	1647 TGTCTTTCAAGATCTCTGTTACAACACTTCTGGTACAGATAACAAAGGTCTGG 1706		
Db	514 TGTCTTTGAGATCTTACAAACACTTCTGGTACAGATAACAAAGGTCTGG 455		
Qy	1707 AACTCATCTCATGCAAGACATGGTGAAGATGCCACTTGGIICTTGTCAGATCCCACGA 1766		
Db	454 AATCCATCTCATGCAAGACATGGTGAAGATGCCACTTGGIICTTGTCAGTCCCGG- 396		
Qy	1767 GTGCTTCCCCAAGTGTACCTATAATAATCAGGCTAAGGACTGTACTGCC 1826		
Db	395 -TGCTCTCCAAAGTGTGCCTATAATAATCAGGCTAAGGACTGTACTCT 337		
Qy	1827 TTTGTTACTCACTGTGTCGGCATCTGTAGTCTATTAGATCCATGGACATACAGG 1886		
Db	336 TTGTTACTCACTGTGTCGGCATCTGTAGTCTATTAGATCCATGGACATACAGG 277		
Qy	1887 GCTGGACAGAGATAAGCTGGTCAATTGTGAGAATTGCCACCTGGCAGGATGAG 1946		
Db	276 GCTGGCAGAGATAACTGGTCAATTGTGAGAATTGTCAGGATGAG-- 219		
Qy	1947 TTTATGACATTATTAAAGGCAGAGAGGTGATGCCAGCTAACCATGCTGT 2006		
Db	218 -----AGGCAGAGAAGGTGATGCCAGCCTTACACTATGCTGT 180		
Qy	2007 TGAACAGGAAACCCAAAGGCAACATTGGCCTTACCAT 2066		
Db	179 TGAACAGGAGCCCCACAGGCAGATTGGCCTTACCAT 120		
Qy	2067 ACCTTCGCATATGATACAGTACCTCTAAGTGGTGAATGGAACCTCA-CAGTATG 2125		
Db	119 ACCTTCGAATTATGATACAGTACCTCTAAGTGGTGAATGGAACCTCA-CAGTATG 60		
Qy	2126 CACGAGTACTATTACATATATTGGTATCTCTGAATCCTTACGGCATGGTGTATGTC 2184		
Db	59 CACGAGTATTACATATATTGGTATCTCTGAATTCCTTACGGCATGGTGTATGTC 1		
RESULT 6			
AK050805 LOCUS AK050805	Mus musculus 3071 bp mRNA linear HTC 05-DEC-2002		
DEFINITION enriched library, clone:D030020M24 product:CORNEAL WOUND HEALING			
ACCESSION AK050805	RELATED PROTEIN homolog [Rattus norvegicus], full insert sequence.		
VERSION AK050805.1	GI: 26094130		
KEYWORDS HTC; CAP trapper.			
SOURCE Mus musculus (house mouse)			
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
REFERENCE 1 Carninci,P. and Hayashizaki,Y.			
AUTHORS	High-efficiency full-length cDNA cloning		
TITLE Meth. Enzymol. 303, 19-44 (1999)			
JOURNAL MEDLINE			
PUBMED 99279253			
PUBMED 10349636			
REFERENCE 2 Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.			
AUTHORS Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes			
COMMENT	CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in RIKEN Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Please visit our web site for further details.		

Db 181 GAACATGTTGCTGGAAATGTTAACCATGGTAGCATGGACGGCAAGTACG 240

Qy 2389 TAAACCGAAGTTGAGCTTGATAGTGAACAAGTCGGTATGAAACAGGTTGCTCATT 2448

Db 241 TAACCCGAAGTTGAGCTTGATAGGAAACAGTTCAGGTATGAAACAGGTTGCTCATT 300

Qy 2449 CAACAGTGTGATGACCCGCCGCGCAGTGCACTACTTACAGTTCAAGGAATGTCGACT 2508

Db 301 CAACAGTGTGATGACCCGCCGCGCAGTGCACTACTTACAGTTCAAGGAATGTCGACT 360

Qy 2509 CAATAA-ATATAGCCCTCTCTCAGTCTCTGACTTACAGTTCAAGGAATGTCGACT 2567

Db 361 CAATAACATATAGCCCTCTCTCAGTCTCTGACTTACAGTTCAAGGAATGTCGACT 420

Qy 2568 TCACACAGGCAAATGATAATTGGAAATATTCTTAACCGGACCATGGAGCTAGTAAGCACT 2627

Db 421 TTCAACAGGCAAATGATAATTGGAAATATTCTTAACCGGACCATGGAGCTAGTAAGCACT 480

Qy 2628 TTTAAAGGTGCCAACCAAATGATAATTGGAAATATTCTTAACCGGACCATGGAGCTAGTAAGCAAA 2687

Db 481 TTTAAAGGTGCCAACCAAATGATAATTGGAAATATTCTTAACCGGACCATGGAGCTAGTAAGCAAA 540

Qy 2688 AGGAATCTAAAGTTCTCTGAAATTGTTGATGTTCTCTGCTCATAAATATTCTCTGTTGTA 2747

Db 541 AGGAATCTAAAGTTCTCTGAAATTGTTGATGTTCTCTGCTCATAAATATTCTCTGTTGTA 600

Qy 2748 AACTTGTGAGAGAGACTGGGAGGTGGCCAT-AAAGGGCAGAGTCTCTTCAAGGACATAACCAAGAT 2806

Db 601 AACCTTGTGAGAGACTGGGAGGTGGCCATCAACGGGCAGAGTCTCTTCAAGGACATAACCAAGAT 660

Qy 2807 CAACTCTAGAGGGCACATCACAGGCTCACATCACGGGAAGTGGATTCTTG 2866

Db 661 CAATTCTAGAGGGCCATTCACGGAGCTCCA-ATCACGGGAAGTGGATTCTGG 719

RESULT 8
BQ965085

LOCUS BQ965085 957 bp mRNA linear EST 21-AUG-2002
DEFINITION AGENCOURT_10052197 NIH_MGC_134 Mus musculus cDNA clone
IMAGE:6505503 5', mRNA sequence.

ACCESSION BQ965085
VERSION BQ965085.1 GI: 22380563
KEYWORDS EST.
SOURCE

ORGANISM Mus musculus (house mouse)

REFERENCE NIH-MGC http://mgc.nci.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Dr. David Rowe
CDNA Library Preparation: Invitrogen Corp
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LLAM14076 row: o column: 08
High quality sequence stop: 632.

FEATURES
source
1. .957
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:1090"
/clone="IMAGE:650503"
/tissue_type="undifferentiated limb"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_134"
/note="vector: pCMV-SPORT6.1.ccdb; Site_1: ECORV; Site_2:

NotI; Cloned unidirectionally. Primer: oligo dT. Average insert size 1.7 kb. Constructed by ResGen, Invitrogen Corp. Note: this is a NIH-MGC Library."

BASE COUNT 274 a 198 c 253 g 232 t

ORIGIN Query Match 20.9%; Score 648; DB 13; Length 957;
Best Local Similarity 87.7%; Pred. No. 1.3e-106;
Matches 719; Conservative 0; Mismatches 100; Indels 1; Gaps 1;

Db 541 GGAGAAGTAGGCATAATGGTTATGAAACTTCTGTAGTATGACGATTCAGGATGGGAG 600
Db 26 GGCAGGGCATCATGGTTATGAAAGCTACTGTAGACGACGAGCTGGGATGGGAG 85
Db 86 CTCGGGATCCGGAAATGGAAGAAGTAGCACAACTGGGGACATACCCAAAGAT 145

Db 601 CTAGTATGCCAGAAAATCGAGAAAGCAATACAACACTGGGGACATACCCAAAGAT 660
Db 661 TTGAGAAGCTGTCGAGAATTAAAGTGGAGAAGTACTCTATGATAAGCTATTGGT 720
Db 146 TTGAGAAGTGTGAGAGACTGGGAGACTGCTCTGTTG 205

Db 721 CTTTTGAAAGCCATGTCGCTATGAAATTGATGGATCCCAAGATGGATGCTGGCATGATT 780
Db 206 CTTTTGAAAGCCATGTCGCTATGAAATTGATGGATCCTAAGATGGATGCCGATGTC 265

Db 781 GGAACCAAGTTAATGAAAGTTCTCAATTGAAACAAGCTCAAGGATGGCACTATT 840
Db 26 GGGACCAAGTGAATGAAAGTCTCATTTGACAGATCAAGGATGGCACCATT 325

Db 841 AAATTAAGATTCACCTGGGAGGTGGATTATGGATACATGTTTGCTGT 900
Db 326 AAATTAAGACCTCAGCTGGCTGAACTGATAGGATAATGGACACCTGTTCTGCTGT 385

Db 901 TTGATAACGTGGTTAGAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATT 960
Db 386 TTGATCACATGGCTCGAAGGCCATTCTGGCACAGACAGTGTITACGTGCTTACATT 445

Db 961 CATAATCCAGACTTATGAGATCTCTGCTATGAAAGGCTTTGCTCTGGGAATCTTGAA 1020
Db 446 CATAATCCCGACTCTAGAAGATCTGGCATGAAAGCTTGTCTGGGAATCTGAA 505

Db 1021 ATCTGTGACATTGCAAGGAAAGTAATAAAGCTGCTGTTTGAAAGGAAAGATTT 1080
Db 506 ATCTGGCACATTGCAAGGAAAGTAATAAAGCTGCTGTTTGAAAGGAAAGATTC 565

Db 1081 CAGTCAATGACTTATGGATTAAATGGCTAACAGTGTGACAGACAGATCTCGAGTTACAGGC 1140
Db 566 CAGTCATGACATTGGCAAGGAAAGTAATAAAGCTGCTGTTTGAAAGGAAAGATTC 625

Db 626 ATGCTAAAGGATGGAGATGATCTGCAAAAGCTGCTGTTTGAAAGGAAAGATTC 685

Db 1201 GGAGAAGAGAGATCCAGAAGTGAACATGAAACAGCACCAACAACTGGTTAGCAAGTCGACAA 1260

Db 686 GGAGAAGAGAGATCCAGAAGTGAACATGAAACAGCACCAACAACTGGTTAGCAAGTCGACAA 745

Db 1261 AGATGAAATTACTCGTGTACTGACAGTGTATAGCCTTACTAAGAAAGAGACC 1320

Db 746 AGATGAAATTACTCGTGTACTGACAGTGTATAGCCTTACTAAGAAAGAGACC 804

Db 1321 AGTGTGTTGCAAGAGCTCAAAATGATGGGTCAGCAG 1360
Db 805 AGTGTGTTGCAAGAGCTCAAAACTGATGGGCAAGGG 844

RESULT 9
AI790514/c
LOCUS AI790514
DEFINITION U102b03.x1 Sugano mouse kidney mRNA linear EST 02-JUL-1999
IMAGE:2064845 3', similar to WP:T23B12..4 CE14032 ; mRNA sequence.

ACCESSION AI790514

VERSION	A1790514.1	GI:	53338230
KEYWORDS	EST.	QY	913 TTGAAAGGCCATTCACTGGCACAGACAGTATTACGGCTTTACATTCATAATCCAGAC
SOURCE	Mus musculus (house mouse)	Db	589 CTCGAAGGCCATTCTGGCACAGACAGTGTTCAGGCTTACATTCATAATCCGCAC
ORGANISM	Mus musculus	QY	973 TTATAGAGATCTGCTATCGAAGGCTTGCCTCTGGGAATCTGAAATCTGTGACATT
REFERENCE	1 (bases 1 to 828)	Db	529 TTCAATGAGATCTGCCATGAAAGCTTGTCTGGGAATCTGAAATCTGTGACATT
AUTHORS	Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, E., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, Waterston, R. and Wilson, R.	QY	1033 GCAAGCCAAAAGTAATAAAGCTGCTGTTTGAGAGGAAGATTTCAGTCATGACT
TITLE	The WashU-NCI Mouse EST Project 1999	Db	469 GCACGGCAAAGTAATAAAGCTGCTGTTTGAGAGGAAGATTCCAGTCATGACA
JOURNAL	Unpublished	QY	1093 TATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTACAGGCACTGCTAAAGAT
COMMENT	Other ESTs: ul02b03.Y1	Db	409 TACGGATTAAATGGCCAAAGCTGAGTGTGACAGATCTCGAGTTACAGGATTCAGTCATGACA
	Email: mouseest@watson.wustl.edu	QY	1153 GATCCAGAGTGAATGACAGAACCAACATGTTAGCAGTATTCAGGCACTGCTAAAGAT
	This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.	Db	289 GATCCAGAGGTGCAACTAGAACCCAGCAGTGCTGGCAGCATCAGCAGAGTGTGAC
	MGI:994033	QY	349 ACTCGTGTGTACTGACAGTGTCTAGGCTTACTAAGAAAGGACAGCTGCTGTCAGGATTAAGAT
FEATURES	High quality sequence stop: 509.	Db	1213 GATCCAGAGTGAATGACAGAACCAACATGTTAGCAGTATTCAGGCACTGCTAAAGAT
source	Location/Qualifiers	QY	1273 GATCCAGAGTGAATGACAGAACCAACATGTTAGCAGTATTCAGGCACTGCTGTCAGGATTAAGAT
	1. .828	Db	229 ACGCGAGTGTGCTCACAGTGTCTAGCCTTACTAAGAAAGGACAGCAGGTGTGCA
	/organism="Mus musculus"	QY	1333 GAAGCTCAAATGATGGTTCAAGCAGCAGATCTTCTGCCATTCAAATTCTTG
	/mol_type="mRNA"	Db	169 GAGGCTCAGAACTGATGGTCCAGGGGGAGACCTTCTGCCATTCAACCTCATTTG
	/strain="C57BL"	QY	1393 CATCATGGCATCCAGGCCAGATGATACTACAAAGGAGATCATTCAATATGATGGT
	/db_xref="taxon:10090"	Db	109 CACCACGGCATCAAGGCTCCGAATGGCAGTACCAAAAGGAGACCAATTAAATGGGT
	/clone="IMAGE:2064845"	QY	1453 TTGAAACCCCTGTGAAACCAGAGGCTACTTCCACCTACCTTCCTCGAT
	/sex="female"	Db	49 TTGAGCCCTGTAAACCAGAGATTACTCCCCCGCTTCCCTCGNT
	/dev_stage="adult"		
	/lab_host="DH10B"		
	/clone_lib="Sugano mouse kidney mkia"		
	/note="Organ: kidney; Vector: pME18S-FL3; Site_1: DraIII was primed with an oligo(dt) primer [ATGGGGCTTTTTTTTTTT]; double-stranded cDNA was ligated to a DraIII adaptor [TGTGGCCTACTGG], digested and cloned into distinct DraIII sites of the pME18S-FL3 vector (5' site CACTGTGTG, 3' site CACCATGTC). XbaI should be used to isolate the cDNA insert. Size selection was performed to exclude fragments <1.5kb. Library constructed by Dr. Sumio Sugano (University of Tokyo Institute of Medical Science). Custom primers for sequencing: 5' end primer CTTCTGCTCTAAAGCTGCG and 3' end primer CGACCTGAGCTCGAGCACA."		
BASE COUNT	208 a 197 c 177 g 240 t 6 others		
ORIGIN			
Query Match	20.7%; Score 641.4; DB 9; Length 828;		
Best Local Similarity	86.4%; Pred. No. 2e-105;		
Matches	716; Conservative 0; Mismatches 112; Indels 1; Gaps 1;		
QY	673 TGTGAGAATTAAAGTGGAGAACTACTTCATGATAAGCTATTGGCTTTGAGCC	DEFINITION	616 bp mRNA linear EST 21-FEB-2003
Db	828 TGTGAGAGCTGAAAGTGGAGACTCTCTCATGATAAGCTTGTGAGCC	ACCESSION	UI-CF-DUL-adr-h-18-0-UI.s1 UI-CF-DUL Homo sapiens cDNA clone
QY	733 ATGTCGAGAATTGGATGGATGCCAGATGGATGGAAACCAAGT	VERSION	BM979511.1 GI:19600035
Db	768 ATGTCGCTATTGAAATGATGATTGATGCTTGTGAGCC	KEYWORDS	EST.
QY	793 ATCGAAAAGTCTCAATTGAAACAAGCTCAAGGATGGCACTTAAAGAT	SOURCE	Homo sapiens (human)
Db	708 ATAGNAAGTCTCAATTGAACTTGTGAGCTTGTGAGCC	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 616)
QY	853 CTCACCTGCTGAACTGATGGGATATGGATACATGTTTGCTGTGATACGTGG	REFERENCE	Bonaldo, M.F., Lennon, G. and Soares, M.B.
Db	649 CTCAGCCTGCNTGAACTGATAGGAATAATGGACACCTGTTCTGTTGATCACATGG	AUTHORS	Normalization and subtraction: two approaches to facilitate gene discovery
		JOURNAL	Genome Res. 6 (9), 791-806 (1996)
		MEDLINE	97044477
		PUBMED	8889548
		COMMENT	Contact: McCray, PB McCrory Lab University of Iowa 2024 University of Iowa Med Labs, Iowa City, IA 52242, USA Tel: 319 356 4866 Fax: 319 356 7171 Email: paul-mccrory@uiowa.edu
			Tissue Procurement: Dr. M. J. Welsh, University of Iowa cDNA Library preparation: Dr. M. Bento Soares, University of Iowa cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Researchers may obtain clones from Research

FEATURES		Genetics (www.resgen.com) or from Open Biosystems (www.openbiosystems.com).									
Source	location/Qualifiers	Seq primer: M13 FORWARD POLYA=Yes.									
1. .516	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="UI-CF-DUL-adr-h-18-0-UI" /tissue_type="Primary Lung Epithelial Cells" /dev_stage="Adult" /lab_host="DH10B (Life Technologies) (T1 phage resistant)" /clone_lib="UI-CF-DUL" /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site_1: EcoR I; Site_2: Not I; UI-CF-DUL is a normalized cDNA library containing the following tissue(s): Primary Lung Epithelial Cells The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT) ₁₈ tail. The sequence tag for this library is GGCTGTAGGC. TAG_LIB=UI-CF-DUL TAG_TISSUE=Lung Epithelial Cells Tissue nos 359-368 TAG_SEQ=GGCTGTAGGC"	QY 3027 TCATTTTATGATGATTGAGTGAATAATAGTGTATAAGGTTAAATTCTTGAC 3086 Db 76 TCATTTTATGATGATTGAGTGAATAATAGTGTATAAGGTTAAATTCTTGAC 17									
BASE COUNT	190 a 123 c 98 g 205 t	RESULT 11	CA977646	C9977646	900 bp	mRNA	linear	EST	06-JAN-2003		
ORIGIN	Query Match 19.7%; Score 610; DB 12; Length 616; Best Local Similarity 100.0%; Pred. No. 9.6e-100; Matches 610; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	DEFINITION	AGENCOURT 11295472 NIH MGC 164 Mus musculus cDNA clone IMAGE:30146905 5', mRNA sequence.	ACCESSION	C9977646	VERSION	C9977646.1	GI:	27510300		
QY	2487 AGTTCAGGAATGTCGACCTCAATAATAGCCCTCCTCAGTCTCTGAACTGT 2546	KEYWORDS	BST.	SOURCE	Mus musculus	ORGANISM	Mus musculus (house mouse)				
Db	616 AGTTCAAGGAATGTCGACCTCAATAATAGCCCTCCTCAGTCTCTGAACTGT 557	JOURNAL	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	COMMENT							
QY	2547 ATGTGGCAGCTAGTAAGCACTTCAACAGGAAATGATATGGAAATATTCTAAC 2606	REFERENCE	1 (bases 1 to 900)	AUTHORS	NIH-MGC http://mgc.nci.nih.gov/	TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)				
Db	556 ATGTCAGCTAGTAAGCACTTCAACAGGAAATGATATGGAAATATTCTAAC 497	COMMENT	Unpublished	CONTACT	Robert.Strausberg, Ph.D.						
QY	2607 CGGACCATGAGGTTAATAGAATTTAAGGTAAGTCCCTGATTGATTCTCTGCTC 2666	COMMENT	Email: cgapbs-r@mail.nih.gov	COMMENT	Tissue Procurement: Dr. David Rowe and Dr. Mina						
Db	496 CGGTGGCAGCTAGTAAGGTTAAATAGAATTAAAGGTTGCCAACCCAACTTGTGACT 437	DEFINITION	cDNA Library Preparation: Invitrogen Corp	DEFINITION	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)	DEFINITION	DNA Sequencing by: Agencourt Bioscience Corporation	DEFINITION	Clone distribution: MGC clone distribution information can be	DEFINITION	found through the I.M.A.G.E. Consortium/LLNL at:
QY	2667 TATTGGCAGGAGCACAAAAGGAATCTAAAGTTCCCTGATTGATTCTCTGCTC 2726	BASE COUNT	http://image.llnl.gov	ORIGIN	Plate: NDAM0063 row: f column: 02	ORIGIN	High quality sequence stop: 655.	ORIGIN		ORIGIN	
Db	436 TATTGGCAGGAGCACAAAAGGAATCTAAAGTTCCCTGATTGATTCTCTGCTC 377	FEATURES	location/Qualifiers	FEATURES	location/Qualifiers	FEATURES	location/Qualifiers	FEATURES	location/Qualifiers	FEATURES	location/Qualifiers
QY	2727 ATAATATTTCTGTGTGAACCTGGTTGAGAGAGACTGGGAGGTGGCCATAAGGG 2786	source	1. .900	source	/organism="Mus musculus"	source	/db_xref="taxon:10090"	source	/clone="IMAGE:30146905"	source	/lab_host="DH10B (phage-resistant)"
Db	376 ATAATATTTCTGTGTGAACCTGGTTGAGAGAGACTGGGAGGTGGCCATAAGGG 317	FEATURES	/mol_type="mRNA"	FEATURES	/clone="Vector: PCMV-SPORT6.1.ccdb; Site_1: EcoRV; Site_2: NotI; Non-normalized full-length enriched library from pooled mouse embryonic limb, maxilla and mandible, day 10.5 and 11.5 (size selected for the 0.5-1 kb fragments)	FEATURES	/clone_lib="NIH_MGC_164"	FEATURES	/note="Vector: PCMV-SPORT6.1.ccdb; Site_1: EcoRV; Site_2: NotI; Non-normalized full-length enriched library from pooled mouse embryonic limb, maxilla and mandible, day 10.5 and 11.5 (size selected for the 0.5-1 kb fragments)	FEATURES	/note="Vector: PCMV-SPORT6.1.ccdb; Site_1: EcoRV; Site_2: NotI; Non-normalized full-length enriched library from pooled mouse embryonic limb, maxilla and mandible, day 10.5 and 11.5 (size selected for the 0.5-1 kb fragments)
QY	2787 GCAGAGCTCTCTCAGACCAACTCTAGAGGGCACATCACCAGGCTCCACATACGGG 2846	Query Match 19.4%; Score 599.2; DB 14; Length 900;	Best Local Similarity 85.5%; Pred. No. 8.1e-98;	Matches 700; Conservative 0; Mismatches 94; Indels 25; Gaps 2;	Base Count 235 a 213 c 212 g 239 t	Origin 1 others	QY 1535 ACTATTTGCAAGATTAATAGATAGATAAAACTGTCTGTGAATTAAACA 1594	Db 3 ACTATTTCTCAAGATTAATAGACAGATAAAACTGTCTGTGAATTAAACA 62	QY 1595 ATTACATGTGATCTGGATTTCCTGTGAATTAGTGAACAGTCACCATGTGTCTT	Db 63 ACTTACACTGTATCTGGATTTCCTGTGAATTAGTGTCTT 122	QY 1655 CAAGATCTCTGTTACAACCACTTCTGGATAACAAAAGGTCTTGGACTCATC 1714
Db	316 GCAGAGCTCTCTCAGACCAACTCTAGAGGGCACATCACCAGGCTCCACATACGGG 257	ORIGIN	QY 196 TTATATGACATGAAACTGCTGTAAACTGTTTATAGTGTCTT 197	Db 196 TTATATGACATGAAACTGCTGTAAACTGTTTATAGTGTCTT 137	Db 123 CTGGCTTATGCAATTGCAACTTCTCGTGGATAACAAAAGGTCTTGGACTCATC 182	Db 136 CTGGCTTATGCAATTGCAACTTCTCGTGGATAACAAAAGGTCTTGGACTCATC 77	QY 2907 TTATATGACATGAAACTGCTGTAAACTGTTTATAGTGTCTT 2906	Db 2907 TTATATGACATGAAACTGCTGTAAACTGTTTATAGTGTCTT 2966	QY 2967 CTGGCTTATGCAATTGCAACTTCTCGTGGATAACAAAAGGTCTTGGACTCATC 3026	Db 2967 CTGGCTTATGCAATTGCAACTTCTCGTGGATAACAAAAGGTCTTGGACTCATC 17	

		FEATURES	LOCATION/QUALIFIERS
		SOURCE	1. .697
QY	1715	TCACTGCAAGACCATGGTGAAGATGCACCTCGGTTTGTCAGATCCTCCGAGTGCTTC	/organism="Homo sapiens"
Db	183	TCATGCAAGACCATGGTGAAGATGCCTCGGGTCTCGTCAG--TCCTCCGGTCTTC	/mol_type="mRNA"
QY	1775	CCCAACTGCTACCTATAATACTACCAGGCTAAGGACTGTATCGACTCCTTGTAC	/db_xref="taxon:9606"
Db	241	CCCAAGTGTGCTATATAATACAGGCTAACGGCTAACAGGCTCGCA	/clone="IMAGE:5294804"
QY	1835	TCACTGTTGGCATTCCTGTAGTATTCACTGATCCATGGACATAACAGGCTCGACA	/tissue_type="hypothalamus"
Db	301	TCACTGTTGGCTTGGCGTTTGTAGTCTGTCACTGATCCATGGCATAACAGGCTCGCA	/lab_host="DH10B"
QY	1895	GAGAGATAAGCTTGGTCATATTCTGGAAATTGCCACCTGCAAGGATGAGTTATGAC	/clone_lib="NIH MGC_96"
Db	361	GAGAGACAAGCTTGGTCACATCTTGAGGAGTTGCTACCTTGCAAGATG-----	/note="Organ: brain; Vector: pBluescript (modified pBluescript KS+); Oligo-dT primed using primer 5'-TTTTTTTTTTVN-3', size-selected for average insert size 2.3 kb and normalized to ROT 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/NHGRI, National Institutes of Health). Note: this is a NIH_MGC Library."
QY	1955	ATTTATTTATAGGCAGAGAGGTGATGCAGCGCTCACACCATGCTGTGAAACAG	1774
Db	411	-----AGCAGAGAGGTGATGCAGCGCTTACATACTATGTTGAAACAG	2014
QY	2015	GAACCCAAAGGCAACATTGGCTTACCTGGCTTACCTAACCTTCG	457
Db	458	GAGCCTCAGAGACAACATCTGGCTCTGCTTAGGAACCTGGCTTACCTAACCTCCG	2074
QY	2075	ATTATGATACAGTACCTCTAAGTGGTTGAAATTGAACTCTACAGTATGCACGAGTAC	517
Db	518	ATTATGATCCAGTATCTGCTCAGTGGCTTGAGCTGGCTGTACAGCATGAGTAC	2134
QY	2135	TATTACATATTTGCTATCTCTGAAATTCTCTGAACTGCACTATTGAGT	577
Db	578	TACTACATCTACTGGTACCTCTCGGAGTTCTGATGCACTGGCTGAGTCAACATTGAGT	637
QY	2195	CGTCCGGATGGCTCTCAAATGGCAGAGGAAGGATAATGGAGAGCAGCAGAAAGCCGT	697
Db	638	CGCGCTGACGGCTCTCAGATGGCAGAGGAGATCATGGANGAACAGCAGAAAGCCGC	2254
QY	2255	AGTAGTAAAAAACAGAAAAAGGAAAGTTGCCCATTTGAGCCGAGAGATCACATG	757
Db	698	AGCCGCCARRAACCAAGAGAGAAAGTTGCCGTGAGCCGAGAGATCACATG	2314
QY	2315	AGCCAAAGCATATCAGAACATGTTGCTGCAATGTTAA 2353	757
Db	758	AGCCAGGCCTATCAGAACATGTTGCTGCTGGGATGTTCAA	796
RESULT 12			
BI602827			
LOCUS	BI602827	697 bp mRNA linear EST 07-SEP-2001	
DEFINITION	6032471871 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5294804 5'		
ACCESSION		mRNA sequence.	
VERSION	BI602827		
KEYWORDS	EST.		
SOURCE			
ORGANISM	Homo sapiens (human)		
REFERENCE			
AUTHORS	1 (bases 1 to 697)	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarachini; Hominidae; Homo.	
TITLE	NIH-MGC http://mgc.ncbi.nih.gov/.		
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)		
COMMENT	Unpublished	Contact: Robert Strausberg, Ph.D. Email: cgabbs-r@mail.nih.gov Tissue Procurement: Miklos Palkovits, M.D., Ph.D. CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki Toshiyuki and Piero Carninci (RIKEN) CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM1745 row: n column: 21 High quality sequence stop: 643.	
RESULT 13			
AW007583/c		598 bp mRNA linear EST 08-MAR-2000	
LOCUS	AW007583		

DEFINITION wt02f11.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2506317 3', mRNA sequence.

ACCESSION AW007583

VERSION AW007583.1 GI:5856446

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap

AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Elias Campo, M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLL at: www-bio.llnl.gov/bbrp/image/image.html

Insert Length: 715 Std Error: 0.00

Seq primer: -40UP from Gibco

High quality sequence stop: 459.

FEATURES Location/Qualifiers

SOURCE

1. .598

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:2506317"

/sex="pooled"

/tissue_type="colon"

/lab_host="DH10B"

/clone_lib="NCI_CGAP_Co3"

/note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was prepared from 12 pooled bulk tumor samples and primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization."

BASE COUNT ORIGIN

Query Match 19.3% Score 597 DB 9 Length 598;

Best Local Similarity 99.8%; Pred. No. 2.1e-97;

Matches 597; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2490 TCAAGGAATGCTCTGACCTCAATAATATAGCCCTCCTCGACTCTGAAGTGATG 2549

Db 598 TCAAGGAATGCTCTGACCTCAATAATATAGCCCTCCTCGACTCTGAAGTGATG 539

QY 2550 TGGCAGCTAGTAAGCACTTCACAGGCAAAATAGATATTGAAATATTCTAACCGG 2609

Db 538 TGGCAGCTAGTAAGCACTTCACAGGCAAAATAGATATTGAAATATTCTAACCGG 479

QY 2610 ACCATGAGGTAAATAGAATTAAAGGTGCCAACCAACTTGTGGTTATGAAGTT 2659

Db 478 ACCATGAGGTAAATAGAATTAAAGGTGCCAACCAACTTGTGGTTATGAAGTT 419

QY 2670 TGGCAGGAGGACACAAAGGAATCTAAAGTTGATTCTGCAT 2729

Db 418 TGGCAGGAGGACACAAAGGAATCTAAAGTTGATTCTGCAT 359

QY 2730 AATATTTCTCTGTGTGAACCTGTGTGAGAGACTGGGAGGTGCCATAAGGGCA 2789

Db 358 AATATTTCTCTGTGTGAACCTGTGTGAGAGACTGGGAGGTGCCATAAGGGCA 299

QY 2790 GAGCTCTTCAGACCCAACTCTAGAGGGCACATCACAGGCTCACAGGGAAAG 2849

RESULT 14

BU058931

DEFINITION UI-M-FRO-cam-e-22-0-UI.rl NIH_BMAP_FRO Mus musculus cDNA clone IMAGE:6414333 5', mRNA sequence.

ACCESSION BU058931

VERSION BU058931.1 GI:22499220

KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 718)

AUTHORS NIH-MGC http://mgc.nci.nih.gov/

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Dr. Jim Lin, University of Iowa

CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa

DNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLL at:

<http://image.llnl.gov>

This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES Location/Qualifiers

SOURCE

1. .718

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6"

/db_xref="taxon:10090"

/clone="IMAGE:6414333"

/tissue_type="whole brain"

/dev_stage="embryo 13.5,14.5,16.5,17.5dpc"

/lab_host="DH10B (T1 phage resistant)"

/clone_lib="NIH_BMAP_FRO"

/note="Organ: Brain; Vector: PYX- Asc; Site 1: EcoR I; Site 2: Not I; The library was constructed according to BonaDo, Lennon and Soares, Genome Research, 6:791-806, 1996. Denatured RNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with oligo-dT primer containing a Not I site. Double strand cDNA was size selected according to mRNA size fraction, ligated with EcoR I adaptor, digested with NotI and then cloned directionally into PYX-Asc vector. The library tag sequence located between the Not I site and the polyA tail is AGCGAGACAG. This library was created for the University of Iowa Brain Anatomy Project (BMAP). Gene Discovery in the Developing Mouse Nervous System' supported by National Institute of Mental Health (NIMH), Hemin Chin, Ph.D.,

Db 298 GAGTCTCTTCAGACCCAACCTTAGAGGGCACATCACAGGGCTCACAGGGAAAG 239

QY 2850 TGAGATGGATTCTGGTAACTCTCATATAAGGAATACTTTAGTTGACAGCCTTA 2909

Db 238 TGAGATGGATTCTGGTAACTCTCATATAAGGAATACTTTAGTTGACAGCCTTA 179

QY 2910 TATGACATGAATGAAACTGCTGTTAAGTGTTTATTATGTTCCATGGAAGAACTG 2969

Db 178 TATGACATGAATGAAACTGCTGTTAAGTGTTTATTATGTTCCATGGAAGAACTG 119

QY 2970 GTCTTATGAAATGCTGTTAAGTGTTTATTACAGTTAACATCA 3029

Db 118 GTCTTATGAAATGCTGTTAAGTGTTTATTACAGTTAACATCA 59

QY 3030 TTTTTATGAAATGCTGTTAAGTGTTTATTACAGTTAACATCA 3087

Db 58 TTTTTATGAAATGCTGTTAAGTGTTTATTACAGTTAACATCA 1

BASE COUNT	program coordinator."	159	C	165	g	171	t	1 others	COMMENT	Contact: Robert Strausberg, Ph.D.
ORIGIN									Tissue Procurement: ATCC	Email: cgabbs@mail.nih.gov
Query Match		19.2%		Score 593.8;	DB 13;	Length 718;			CDNA Library Preparation: Life Technologies, Inc.	
Best Local Similarity		89.1%		Pred. No. 7.8e-97;					DNA Sequencing by: Incyte Genomics, Inc.	
Matches 640; Conservative		0;		Mismatches 78;		Indels 0;			Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:	
QY	896	GCTGTTGATAACGTGGTAGAAGGCCATTCACTGGCACAGTATTACGTGCCTT	955						http://image.llnl.gov	
Db	1	GCTGTTGATCACATGGCTCGAAGGCCATTCTGGCACAGTGTACGTGCCTT	60						Plate: LLAM10032 row: j column: 01	
QY	956	ACATTCTATAATCCAGACTTATAGAAGATCCTGCTATGAAGGCTTCCTGCTCTGGAACT	1015						High quality sequence stop: 658.	
Db	61	ACATTCTATAATCCGACTCTAGAGATCCTGCTCTGGAACT	120						Location/Qualifiers	
QY	1016	TGAATACTGTGACATGCAAGGAAAGTAATAAACGCTTGTGAGAGGAAG	1075						/clone_xref="IMAGE:4372320"	
Db	121	TGAAGATCTGGACATTCACGGAAAGTAATAAACGCTTGTGAGAGGAAG	180						/tissue_type="osteosarcoma, cell line"	
QY	1076	ATTTCACTGACTATGGATTAAATGGCTAACAGTGTGACAGATCTCGAGTTA	1135						/lab_host="DH10B (phage-resistant)"	
Db	181	ATTTCCAGTCATGACATACGGATTAAATGGCCAACAGTGTGACAGATCTCGAGTTA	240						/clone_lib="NIH MGC_86"	
QY	1136	CAGGCATGCTAAAGATGTGGAGGATGACATGCCAAGAGAGTAAGAGTACTCGAAGTC	1195						/note="Organ: bone; Vector: PCMV-SPORT6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally; oligo-dT primed.	
Db	241	CAGGGATGCTAAAGGATGTGGAAGATGATCTGCCAAGGGAGTAAGAGTACTCGAAGTC	300						Average insert size 1.533 kb. Library enriched for full-length clones and constructed by Life Technologies.	
QY	1196	GACAGGAGAAGAGATCCAGAGGTGACTAGAACACCACAAATGTTAGCAGT	1255						Note: this is a NIH_MGC Library."	
Db	301	GACAAGGAGAGATCCAGAGGTGACTAGAACACCACAAATGTTAGCAGT	360						BASE COUNT	
QY	1256	TCAGCAGAGTGAAATTACTCGTGTACTGACAGTGTCTAGCCTTACTAAGAAG	1315						285	a
Db	361	TCAGCAGAGTGAAATTACTCGTGTACTGACAGTGTCTAGCCTTACTAAGAAG	420						232	C
QY	1316	AGACCACTGCTGTTGCAGAAGCTCAAATATGATGGTTCAAGCAGCAGATCTCTCTG	1375						214	g
Db	421	AGACCACTGCTGTCAGAGGTCAAATCTGACTGATGGTCCAGGGCAGACCTCTG	480						241	t
QY	1376	CCATTCTATAATCATGGCATCATGGCATCCAGGCCAGAAATGATACTACAAAGGAGTC	1435						COMMENT	
Db	481	CCATTCTACAACCTCATGGCACCACGGCATTCCAGGGCTCAAATCCAAGGAGAC	540						source	
QY	1436	ATCCCAATTATGATGGTTTGAAACCCCTGTGAACTGACTTCCACCTACCTCC	1495						Query Match	
Db	541	ATCCCAATTATGATGGTTTGAGCCCTGTAAACAGAGATTACTCCACCCACCTCC	600						Best Local Similarity	
QY	1496	CTCGATATGCAAAATAATTAAAGGGAGAAATTGGTAACATTGCAAGATTAG	1555						96.6%;	
Db	601	CTCGATATGCAAAATAATTAAAGGGAGAAATTGGTAACATTCTCAAGATTAG	660						Pred. No. 1.9e-95;	
QY	1556	ATAGAATAAAACTGTCTGTGAGGTGTGAATTAAACAAATTACATTGTATCCTGGA	1613						Mismatches 15;	
Db	661	ACAGGATAAAACTGTCTGTGAGGTGTGAACTTACCAAATTACATTGTATCCTGGA	718						Indels 8;	
RESULT 15									Gaps 6;	
BG112812										
LOCUS	BG112812		972	bp	mRNA	linear	EST	30-JAN-2001		
DEFINITION	602285005F1 NIH_MGC_86	Homo sapiens	CDNA	clone	IMAGE:4372320	5'				
ACCESSION	602285005F1	NIH_MGC_86	Homo sapiens	CDNA	clone	IMAGE:4372320	5'			
VERSION	BG112812									
KEYWORDS	BG112812.1	GI:12606318								
EST.										
SOURCE										
ORGANISM	Homo sapiens	(human)								
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.									
REFERENCE	1	(bases 1 to 972)								
AUTHORS	NIH-MGC	http://mgc.ncbi.nih.gov/								
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)									
JOURNAL	Unpublished									
QY	2688	AGGAATCTAAAGTCTCTGAATTGATTCTCTGTCTCATATAATTCTCTGTGA	2747							

Tue Nov 25 09:35:52 2003

us-10-001-857-42.rst

Page 14

Db 601 AGGAATCTAAAGTTCCTGAA-TTGATTCTCTGCTCATA---ATATTCTGTGTA 656
Qy 2748 AACTTGTGGAGAGAGACTGGGAGG 2773
Db 657 AACTGTTGAGAGAGACTGGGAGGTGG 682

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model
Run on: November 24, 2003, 22:01:10 ; Search time 96.5 Seconds
(without alignments)
10184.818 Million cell updates/sec

Title: US-10-001-857-42

Perfect score: 5439

Sequence: 1 ttccctcacgaaactccagg. atttcttgacaaaaaaaaa 3096

Scoring table: BLOSUM62

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Ygap0 10.0 , Ygapext 0.5

Fgap0 6.0 , Fgapext 7.0

Del0 6.0 , Delext 7.0

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 2215726

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=A_Geneseq_19Jun03 -QFORMAT=fastaa -SUFFIX=n2p.rag -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptx -HEAPSZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10001857 @CGN_1_1_0 @runat_24112003_162854_9527 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAP0=10 -XGAPEXT=0.5 -DELOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES						
Result No.	Score	Query Match	Length	DB	ID	Description
1	3796	69.8	733	23	ABP52902	Human lung specific molecule for
2	3732.5	68.6	725	23	AAO19400	Drosophila melanogaster secretory protein
3	1298.5	23.9	784	22	ABB60388	Novel human secretory protein
4	1237	22.7	239	23	ABG69816	Herbicidally active
5	392	7.1	108	22	AAU32414	Human transmembrane protein
6	158.5	2.9	681	23	ABB93650	WASP homolog protein
7	153.5	2.8	156	22	ABG14149	Amino acid sequence
8	153	2.8	708	23	ABB91504	Novel human diaphragm
9	146.5	2.7	120	22	ABU52794	Herbicidally active
10	146.5	2.7	574	22	AAM52322	Human polypeptide
11	146.5	2.7	574	22	AAG67370	Human Scarf protein
12	146	2.7	416	23	ABG79529	Novel human diaphragm
13	145.5	2.6	694	23	ABB92421	Herbicidally active
14	145	2.6	149	22	AAO05346	Human diaphanous protein
15	145	2.6	559	22	AAB73399	Streptomyces viridis
16	145	2.6	559	22	AAB20494	S. cerevisiae BAX
17	145	2.6	559	22	ABU00297	Novel human diaphragm
18	145	2.6	559	22	AAY13464	Human novel polypeptide
19	144	2.6	1134	23	AEE24341	Human diaphanous protein
20	143	2.6	19938	24	ABB98398	Streptomyces viridis
21	143	2.6	598	22	ABG14000	Novel human diaphragm
22	143	2.6	780	24	AU00297	Human lung-specific protein
23	143	2.6	1248	20	AAY13464	Novel human diaphragm
24	143	2.6	19938	24	ABB98398	Novel human diaphragm
25	141.5	2.6	551	23	ABC93105	Arabidopsis thaliana
26	141.5	2.6	560	22	ABG21040	Streptomyces viridis
27	141.5	2.6	5877	24	AEE34702	Mammalian Ena (Menin)
28	141	2.6	191	21	AAG29835	Mouse neural Menin
29	141	2.6	199	21	AAG29835	Mouse neural Menen
30	140.5	2.6	19938	24	ABP76680	Mammalian enabled protein
31	140	2.5	541	19	AAN37148	Human kinases and
32	140	2.5	783	19	AAW37151	Cotton fiber-specific protein
33	140	2.5	787	19	AAW37152	Np70 protein carbohydrolase
34	140	2.5	802	19	AAW37153	Human RNA metabolism
35	140	2.5	802	22	AU009139	Np70BP. Homo sapiens
36	139.5	2.5	1243	24	AAE34865	Hypoxia-regulated protein
37	139.5	2.5	1243	24	ABP76680	Human colon cancer
38	139	2.5	214	17	ABR86913	Human WNK4 protein
39	138.5	2.5	250	21	AY67470	Human Np38BPI transporter
40	138.5	2.5	641	21	AYB2327	Human Np70BP. Homo sapiens
41	138.5	2.5	641	21	AYY67469	LSP; cytostatic; gene therapy; vaccine
42	138.5	2.5	641	22	AYY72165	LSP; cytostatic; gene therapy; vaccine
43	138.5	2.5	641	22	AB47514	LSP; cytostatic; gene therapy; vaccine
44	138.5	2.5	647	21	AAB53462	LSP; cytostatic; gene therapy; vaccine
45	138.5	2.5	903	23	ABP65235	LSP; cytostatic; gene therapy; vaccine

ALIGNMENTS

RESULT 1
ABP52902 standard; Protein: 733 AA.
AC ABP52902;
XX DT 05-NOV-2002 (first entry)
XX DE Human lung specific protein sequence SEQ ID NO:145.
XX KW Human; lung; lung specific nucleic acid; LSNA; lung specific protein;
KW LSP; cytostatic; gene therapy; vaccine; metastasis; lung cancer;
KW squamous cell carcinoma.

OS Homo sapiens.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

XX WO200264788-A2.

R C A

PD 22-AUG-2002. Db 121 GluGlyHisSerLeuAlaGlnThrValPheThrCysLeuTyrlleHisAsnProAspPhe 140
 XX 20-NOV-2001; 2001WO-US45080. Qy 976 ATAGAAAGATCCTGCTATGAAGGCTTGCCTCTGGAAATCTGTGACATGCCA 1035
 PR 20-NOV-2000; 2000US-252054P. Db 141 IleGluAspProAlaMetLysAlaPheAlaLeuGlyIleLeuLysIleCysAspIleAla 160
 PA (DIAD-) DIADEXUS INC. XX
 PI Macina RA, Recipon H, Chen S, Sun Y, Liu C; DR
 XX WPI; 2002-657601/70.

PT New lung specific nucleic acid useful in gene therapy or as vaccines
 PT for treating lung cancer (e.g. squamous cell carcinoma) or
 PT non-cancerous lung diseases, as well as for diagnosing, monitoring or
 PT staging these diseases - XX

PS Claim 11; Page 239-242; 282pp; English.

XX The present invention describes an isolated lung specific nucleic acid
 CC (LSNA) comprising a sequence that: (a) encodes any of the 93 amino acid
 CC sequences comprising 17 - 733 amino acids, given in ABP52873 to ABP52965;
 CC (b) comprises any of 115 sequences comprising 148 - 3193 base pairs (bp),
 CC given in ABQ75262 to ABQ75376; (c) selectively hybridises to (a) or (b);
 CC or (d) has 60 % sequence identity to (a) or (b). LSNA and lung specific
 CC protein (LSP) sequences have cytostatic activity and can be used in gene
 CC therapy and vaccines. LSNA and LSPs are useful for diagnosing and
 CC monitoring the presence and metastases of lung cancer in a patient. An
 CC antibody that specifically binds to an LSP in a sample, as well as for determining
 CC the presence of an LSP in a sample, as well as for treating a patient
 CC with lung cancer, particularly by inducing an immune response against
 CC the lung cancer cell expressing the LSNA or LSPs. In particular, these
 CC LSNA and LSPs are useful for identifying, diagnosing, monitoring,
 CC staging, imaging and treating lung cancer (e.g. squamous cell carcinoma)
 CC and non-cancerous disease states in lung. XX

SQ Sequence 733 AA;

Alignment Scores:

Pred. No.:	0	Length:	733
Score:	3796.00	Matches:	732
Percent Similarity:	99.59%	Conservative:	0
Best Local Similarity:	99.59%	Mismatches:	1
Query Match:	69.79%	Indels:	3
DB:	23	Gaps:	0

US-10-001-857-42 (1-3096) x ABP52902 (1-733)

Qy	556 ATGTTATGAAAGCTCTGTAGATGACGGATCAGGATGGAGCTCACTATGCCAGAA 615	Db	1 MetValMetLysAlaSerValAspAspAspSerGlyTrpGluLeuSerMetPheGlu 20
Qy	616 AAAATGGAGAAAGCAATACAACGGTGGACATTACCCAGATTTCAGAGACTGT 675	Db	21 LysMetGluLysSerAsnThrAsnTrpValAspIleThrGlnAspPheGluIalaCys 40
Qy	676 CGAGAATAAGTGGGAACTACTTCATGATAAGCTATTGGCTTTGAAGCCATG 735	Db	41 ArgGluLeuIysLeuGlyGluLeuLeuHisAspLysLeuPheGlyIlePheGluIalaMet 60
Qy	736 TCTGCTATGAAATGATGGATCCCAGATGGATCTGGCATGATGGAAACCAAGTTAAT 795	Db	61 SerAlaIleGluMetMetAspProLysMetAspAlaGlyMetIleGlyAsnGlnValAsn 80
Qy	796 CGAAAAGTTCTCAATTGAAACAAGCTATCAAGGATGGCACTTAAATAAGATCTC 855	Db	81 ArgLysValLeuAsnPheGluGlnAlaIleLysAspGlyIleGluIleLysAspIle 100
Qy	856 ACCTTGCTGAACTGATGGGATTATGGATACATGTTTGCTGTTGATAACGGTTA 915	Db	101 ThreLeuProGluLeuIleGlyIleMetAspPheCysPheCysCysLeuIleThrTrpIle 120
Qy	916 GAAGGCCATTCACTGGCACAGACAGTATTACGTGCTTACATTCAAATCCAGACTT 975	Db	

Qy 1096 GGATTTAAATGGCTAACAGTGTGACAGATCTCGAGTACAGCATGCTAAAGATGTG 1155

Db 181 GlyPhelysMetAlaAsnSerValThrAspLeuArgValThrGlyMetLeuLysAspVal 200

Qy 1156 GAGGATGACATGAAAGAAGAGTAAGAGTACTCGAGTCGACAGGAGAAAGAT 1215

Db 161 ArgGluLysValAsnLysAlaAlaAlaPheGluGluGluAspPheGlnSerMetThrTyr 180

Qy 1216 CCAGAAGTTGAACTAGAACACACAAATGTTAGCAGTATTGAGAGTAATTACT 1275

Db 221 ProGluValGluLeuGluIleGlyGlnGlnCysLeuAlaValPheSerArgValThr 240

Qy 1276 CGTGTGTTACTGACAGTGTGCTTATAGCCTTACTAAGAAAGAGACCAGTGCTGTCAGAA 1335

Db 241 ArgValLeuIleThrValLeuIleAlaPheThrLysGluThrSerAlaValAlaGlu 260

Qy 1336 GCTCAAATAATGATGGTCAAGCAGCAGATCTCTCTGCATTCATAATTCATGCCAT 1395

Db 261 AlaGlnLysLeuMetValGlnAlaAlaAspIleLeuSerAlaIleLeuHis 280

Qy 1396 CATGGCATCCAGGCCAGAATGATACTACAAAGGAGATCATCCAAATTATGATGGTTT 1455

Db 281 HisGlyIleGlnAlaAlaGlnAsnAspThrIleLysGlyAspHisProIleMetMetGlyPhe 300

Qy 1456 GAACCCCTGTGAAACCAGAGGCTACTTCACCTACCTCCCTCGATATGCCAAATT 1515

Db 301 GluProLeuValAsnGlnArgIleLeuProProThrPheProArgTyraLysIleIle 320

Qy 1516 AAAGGGAAGAAATGGTGAACATTTCAGATTAGATAATAAAACTGTCCTG 1575

Db 321 LysArgGluLysSerAlaSerValAspAspAspSerGlyTrpGluLeuSerMetPheGlu 340

Qy 1576 GAGGTGTGAATTACAATTACATTACATTGATCTGGATTTCAGTTAGTGA 1635

Db 341 GluValValAsnIleThrAsnIleHisCysIleLeuAspPheCysGluPheSerGlu 360

Qy 1636 CAGTCACCATGTTCTTCAGATCTCTGTTACAACCACTTCCTGGGATAACAA 1695

Db 361 GlnSerProCysValLeuSerArgSerIlePheGluIleLeuAspAspLys 380

Qy 1696 AAGGTCTTGGAACTCATCTCATGCAACACATGGAAAGATGCACTCGCTTTGTC 1755

Db 381 LysValPheGlyIleThrHistLeuMetGlnAspMetValIleLeuAspPheCysGluPhe 400

Qy 1756 AGATCCTCCGAGTGTCCCCAAGTGTACCTATAATAACCAAGGCTAAGGACT 1815

Db 401 -AspPro-Pro-ValLeuSerSerProLysCystyIleLeuIleArgSerPheVal 420

Qy 1816 GTATCGACTCCTTGTACTCACTGTGTCGGCCATTCTGTAGCTTATTGATCCATG 1875

Db 420 YsIleAspSerPheValThrHisCysValIleArgProPheCysSerIleIleGlnIleHisG 440

Qy 1876 GACATACAGGGCTCGACAGAGAGATAAGCTGGTCATATTCTGAGGAATTGCCACT 1935

Db 440 IleHisAsnGlnAlaArgGlnArgAspLysLeuGlyIleLeuGluIleLeuAlaIleIle 460

Qy 1936 TCCAGGATGAGTTATGACATTTATTAAAGCCA-GAGAAGGTGATGCGCCTC 1994

Db 460 euglInAspGluPheMetThrPhePheAsnGlnAlaGluLysValAspAlaAlaLeuH 480

Qy 1995 ACACCATGCTGAAACAGGAAACCCAAAGGCAACATTGGCCTTACATTCAAATCCAGACTT 2054

Db	480 isthRmetLeuleuLeuLysGlnGluProGlnArgGlnHisLeuAlaCysLeuGlyThrTrpV	PR	09-FEB-2001; 2001US-268117P.
QY	2055 TCCTTACCATACCTTCGCATTATGATACAGTACCTCTAAGTGCTTGAAATTGAAAC	PR	15-FEB-2001; 2001US-269618P.
Db	500 alleuTyRHisAsnLeuArgileMetIleGlnTyRleuSerGlyPheGluLeuGluL	PR	23-FEB-2001; 2001US-271118P.
QY	2115 TCTACAGTAGTGCAGGACTATATTACATAATGGTATCTCTGAATTCTTACGCAT	PR	07-MAR-2001; 2001US-274486P.
Db	520 euTyRSeRMeThiSgluTyRTyRTyriLeuSerGluLeuTyralat	PR	09-MAR-2001; 2001US-274436P.
QY	2175 GGTGTGATGTCACATGAGTCGTGCCGATGGCTCTCAATGGCAGAGGAAGGATAATGG	PR	28-NOV-2001; 2001US-334229P.
Db	540 rpleuMetSerThrLeuSerArgAlaAspGlySerGlnMetAlaGluGluArgileMetG	PR	01-FEB-2002; 2002US-353284P.
QY	2235 AAGAGCAGCAGAAAGGCCGTAGTAGTAAACAAAGAACAAAGAAAGTTGCCAT	PA	(INCY-) INCYTE GENOMICS INC.
Db	560 luGluGlnGlnLysGlyArgSerSerLysLysLysValArgProl	XX	
QY	2295 TGAGCCGAGAGATCACAAATGAGCCAGCATATCAGAACATGTTGCTGGATGTTAAA	XX	Ial PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y;
Db	580 euserArgGluileThrMetSerGlnAlaTyrglnAsnMetCysAlaLysGlyMetPhelyst	XX	Pi Honchell CD, Yue H, Ding L, Gietzen KJ, Ison CH, Lu DAM;
QY	2355 CCATGGTAGCATTTGACATGGACGGCAAAGTAGCTAAACCGAAGTTGAGCTGATAGTG	XX	Pi Hafalia AJA, Ghandi AR, Thangavelu K, Sanjanwala MM, Tang YT;
Db	600 hrMeValAlaPheAspMetAspGlyLysValArgLysProLysPheGluLeuAspSerG	XX	Pi Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;
QY	2415 AACAAAGTCCGGATGAAACAGGTTGCTCATCAACAGTGTGATGACCCGCCAG	XX	Pi Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;
Db	620 luGlnnValArgTyrglUhiSargPheAlaPropheAsnSerValMetThrProPro	XX	DR WPI; 2002-713453/77.
QY	2475 TGCACACTACAGTCAGGAATGTCGACCTCAATAATAATAGCCCTCTCTCAGT	XX	DR N-PSDB; AAL49929.
Db	640 alHistTyrglUhiSargPheAlaPropheAsnSerValMetThrProPro	XX	
QY	2535 CTCCCTGAACACTGTGTTGAGCACTTCACAGGCAAATGATATTGGAAA	XX	PT New human molecules for disease detection and treatment (MDDT), useful
Db	660 erProGluLeuTyryValAlaAlaSerLysHisPheGlnGlnAlaLysMetIleLeuGluA	XX	PT for diagnosing, treating and preventing diseases or conditions
QY	2595 ATATTCCTAACCCGACCATGAGGTTATAGAATTAAAGGTGCCAACCAACTTG	XX	PT associated with the aberrant MDDT expression, e.g. cancer, AIDS,
Db	680 snileProAsnProAspHisGluValAlaasnArgileLeuLysValAlaLysProAsnPheV	XX	CC asthama, diabetes, hepatitis -
QY	2655 TGGTATGAAAGTTATGGCAGGAGCACAAAGGAATCTAACGTTCTCTGAAATTG	XX	CC
Db	700 alValMetLysLeuAlaLysGlyLysLysLysGluSerLysValProProGluPheA	XX	CC
QY	2715 ATTCTCTGCTCATATAATTCTCTGTTGAACTGTGTT 2755	XX	CC
Db	720 sppheSerAlaHisLysTyryPheProValValLysLeuVal 733	XX	CC
RESULT 2			
AA019400	Alignment Scores:	725 AA;	
AA019400	Pred. No.:	0	
AA019400	Score:	3732.50	
AA019400	Percent Similarity:	98.23%	
AA019400	Best Local Similarity:	98.23%	
AA019400	Query Match:	68.62%	
AA019400	DB:	23	
US-10-001-857-42 (1-3096) x AA019400 (1-725)			
QY	556 ATGGTTATGAAAGCTCTGTAGATGAGCTGGAGCTCAGTATGCCAGAA	QY	09-FEB-2001; 2001US-268117P.
Db	1 MetValMetLysAlaSerValAspAspSpaspSpaspSerGlyTyrglUleuSerMetProGlu	PR	15-FEB-2001; 2001US-269618P.
XX	Human molecule for disease detection and treatment protein #3.	PR	23-FEB-2001; 2001US-271118P.
AC	10-DEC-2002 (first entry)	PR	07-MAR-2001; 2001US-274486P.
XX	Human molecule for disease detection and treatment protein #3.	PR	09-MAR-2001; 2001US-274436P.
DE	Human molecule for disease detection and treatment protein #3.	PR	28-NOV-2001; 2001US-334229P.
XX	Human molecule for disease detection and treatment protein #3.	PR	01-FEB-2002; 2002US-353284P.
KW	Human; molecule for disease detection and treatment; MDDT; gene therapy;	PA	(INCY-) INCYTE GENOMICS INC.
KW	Cytostatic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic;	PA	
KW	antiinflammatory; antiasthmatic; cerebroprotective; nootropic;	PA	
KW	neuroprotective; antiparkinsonian; cardiant; antianginal.	PA	
OS	Homo sapiens.	PA	
XX	WO200270709-A2.	PA	
XX	12-SEP-2002.	PA	
PD	08-FEB-2002; 2002WO-US03709.	PA	
PF		PR	
XX		PR	

QY	916 GAAGGCCATTCACTGGCACAGACAGTATTACGTGCCTTACATCATAATCCAGACTT	975	Db	472 SThrMetIleLeuLysGlnGluProGinArgGlnHisLeuAlaCysLeuGlyThrTrpVal	492
Db	121 GluGlyHisSerLeuAlaGlnThrValPheThrCysLeuTyrlEhiAsnProAspPhe	140	QY	2056 CCTTACCATACCTCGCATATGATACTACAGTACCTCTAAAGTCAGTTGAATTGGAAC	2115
QY	976 ATAGAAGATCCGCTATGAGGCTTTCGCTCTGGAAATCTGTGACATRGCA	1035	Db	492 LeuTyrlHiSAsnLeuArgIleMetIleGlnTyrlLeuSerGlyPheGluLeuGlu	512
Db	141 IleGluAspProAlaMetLysAlaPheAlaLeuGlyIleLeuLysIleCysAspIleAla	160	QY	2116 CTACAGTAGCAGAGTACTATTACATATATGGTATCTCTCTGAATTCTTACGCATG	2175
QY	1036 AGGGAAAAGTAATAAGCTGTTGAAGAGAGATTTCAGTCATGACTT	1095	Db	512 uTyrSerMetHisGluTyrlTyrlTyrlLeuSerGluPheLeuTyrlAlaTr	532
Db	161 ArgGluLysValAsnLysAlaAlaAlaValPheGluGluAspPheGlnSerMetThrTyr	180	QY	2176 GTGATGTCACATGAGTCGGCGATGGCTCTCAAATGGCAGAGGATAATGGA	2235
QY	1096 GGATTTAACATGGCTAACAGTGTGACAGATCTTCGAGTTACAGGATGCTAAAGATGTG	1155	Db	532 pleuMetSerThrLeuSerArgAlaAspGlySerGlnMetAlaGluGluArgIleMetG1	552
Db	181 GlyPhelysMetAlaAsnSerValThrAspLeuArgValThrGlyMetLeuLysAspVal	200	QY	2236 AGAGCAGCAGAAAGGCCGTAGTAGTAAAGAGACTCGAACAGGAAGAAAGAGAT	1215
QY	1156 GAGGATGACATGCAAAGAGAGTAAGAGTACTCGAACAGGAAGAAAGAGAT	1215	Db	552 uGluGlnGlnLysGlyArgSerSerLysLysThrLysLysLysValArgProle	572
Db	201 GluAspAspMetGlnArgArgVallysSerThrArgSerArgGlnGlyGluGluArgAsp	220	QY	2296 GAGCCGAGAGATCACAACTGAGCAAGCATGAGCATGAGCATGTTGCTGAATGTTAAC	2355
QY	1216 CCAGAAGTTGAACTAGAACACAAATGTTAGCAGATTCAGCAGGAATTACT	1275	Db	572 uSerArgGluValGluLeuGlyGlnGlySerArgVallysPheThr	240
Db	221 ProGluValGluLeuGlyGlnGlySerArgVallysPheThr	240	QY	2356 CATGGTAGCATTTGACATGGGAAAGTAGTAACCGAACAGGTGCTGAGCTTGATAGTGA	2415
QY	1276 CGTGTGTTACTGACAGTGTCTATAGCCTTACTAAAGAACAGGAGCTGCTGAGAA	1335	Db	592 rMetValAlaPheAspMetAspGlyLysValArgSerSerLysLysLysValArgProle	612
Db	241 ArgValLeuLeuThrValLeuIleAlaPheThrLysGluThrSerAlaValAlaGlu	260	QY	2416 ACAAGTCGGTATGAAACAGGTTGCTCCATTGATGGTT	1395
QY	1336 GCTCAAATTGATGGTTCAAGCAGAGATCTTCTGCCATTCAATTGATGCGAT	1395	Db	612 uGlnValArgTyrlGluHiSArgPheAlaProPheAsnSerValMetThrProProva	632
Db	261 AlaGlnLysLeuMetValGlnAlaAlaAspLeuIleAlaPheThrLysGlyAspHisProleMetMetGlyPhe	280	QY	2476 GCACTACTACAGTTCAAGGAATGTCGACTTCGATATGCGATATGCGCTCTCCCTCTCTCGAGT	2475
QY	1396 CATGGCATCCAGGCCAGGAATGATACTACAAAGAGATCATCCAAATTGATGGTT	1455	Db	632 lHistYrlLeuGlyNphelysGluMetSerGlnAlaTyrlGlnAsnMetCysAlaGlyMetPheLysTh	592
Db	281 HisGlyIleGlnAlaGlnAsnAspPheProArgTyrlAlaLysSerLeuHis	300	QY	2536 TCCTGAACTGTATGGCAGCTAGTAAGCACTTCACGGCAAAATGATATGGAA	2595
QY	1456 GAAACCCCTGTGAAACCAGAGCTACTTCACCTCCGATATGCAAATAATT	1515	Db	652 rProGluLeuTyrlAlaAlaSerLysHiSpheGlnGlnAlaLysMetIleLeuGluAs	672
Db	301 GluProLeuValAsnGlnArgLeuProProThrPheProArgTyrlAlaLysIle	320	QY	2596 TATTCCTTAACCCGGACCATGAGTTAATGAAATTAAAGGTTGCCAACCAACTTGT	2655
QY	1516 AAAAGGAAGAAATGGTGAACATTACATGTCAGATTAAACTGTCTGT	1575	Db	672 nileProAsnProAspPheGluValAsnArgIleLeuLysValAlaLysProAsnPheva	692
Db	321 LysArgGluIgluMetValAsnTyrrpheAlaArgLeuIleAspArgIleLeuGlyCys	340	QY	2656 GGTATGAGTATGGCAGAGCACAAAGGAACTAAAGTCCCTCTGAATTGA	2715
QY	1576 GAGGTGTGAAATTACAATTACATGTCAGATTTCGGATTAGTGAA	1635	Db	692 lValMetLysLeuLeuAlaGlyGlyHiLysLysGluSerValProProGluPheAs	712
Db	341 GluValValAsnLeuThrAsnLeuIleAlaCysIleLeuAspPhePheCysGluGlySerGlu	360	QY	2716 TTCTCTGCTCATATAATTTCCTGTTGAACTTGT	2755
Db	361 GlnSerProCysValLeuSerArgSerLeuIleLeuGlyNhrPheLeuValAspAsnLys	380	Db	712 pPheserAlaHiLysTyrPheProValValLysLeuVal	725
QY	1636 CAGTCACCATGTTCAAGATCTCTGTTACAACCACTTCGGTGTACCAACAA	1695	RESULT 3	ABB60388	
Db	381 LysValPheGlyThrHisLeuMetGlnAspMetValLysAspAlaLeuGlyAsp	400	ID	ABB60388 standard; Protein: 784 AA.	
QY	1756 AGATCCTTGGACTCATCTCATGCCAGACATGGCAAGACTTCGGCTTTCGTC	1755	XX	ABB60388;	
Db	401 -SerProPro-ValLeuSerProLysCysTyrlIleUtyrAsnHisGlnAlaLysAspC	420	XX	DT 26-MAR-2002 (first entry)	
QY	1816 GTATCGACTCCTGTGTTACTCACTGTTGGCTGGCCATTCTGAGTCTTCA	1875	DE	Drosophila melanogaster polypeptide SEQ ID NO 7956.	
Db	420 YsileaspSerPheValThrHisCysValArgProPheCysSerLeuIleGlnIleHisG	440	XX	KW Drosophila; developmental biology; cell signalling; insecticide; pharmaceutical.	
QY	1876 GACATAACAGGGCTGACAGAGAGATAAGCTGTCATATCTTGAGGAATTGCCCC	1935	XX	OS Drosophila melanogaster.	
Db	440 LyHisAsnGalaArgGlnArgAspLysLeuGlyHiIleLeuGlyPheAlaThr	460	XX	PN WO200171042-A2.	
QY	1936 TGCAGGATGAGTTATGACATTAAAGGAGGTTGATGCGAGCCTCA	1995	XX	PD 27-SEP-2001.	
Db	460 euGlnasp-----Glu-AlaGluLysValAspAlaAlaLeuHi	472	PF XX	23-MAR-2001; 2001WO-US09231.	
QY	1996 CACCATGCTGTGAAACAGGAACCCCAAAGGCACATTGGCCTGTTAGGTACCTGGGT	2055	PR XX	23-MAR-2000; 2000US-191637P.	

PR 11-JUL-2000; 2000US-0614150.
 XX (PEKE) PE CORP NY.
 PA
 XX Venter JC, Adams M, Li PWD, Myers EW;
 PI DR WPI; 2001-656860/75.
 XX DR N-PSDB; ABL04491.
 PT New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -
 PT Disclosure; SEQ ID NO 7956; 21pp + Sequence Listing; English.
 XX The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABL5737-ABL72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences.
 XX Sequence 784 AA;

Alignment Scores:

Pred. No.:	2.07e-114	Length:	784
Score:	1298.50	Matches:	306
Percent Similarity:	55.42%	Conservative:	139
Best Local Similarity:	38.11%	Mismatches:	265
Query Match:	23.87%	Indels:	93
DB:	22	Gaps:	18

US-10-001-857-42 (1-3096) x ABB60388 (1-784)

QY	472 GCGCCGGGGCGAGGCCGCGCTCGTTA-----TTCCGTGCTCCGGACAGTCGCTGGCG 525
Db	34 AlaAlaAlaAlaArgAlaSerSerLeuGluglnAsnGluPhePro 34
QY	526 GCGGGGTGACCACGGGAGAAGTAGGCATAATG-----GTATG 564
Db	49 -----ValGlyGluCysGlyPheLeuAspProaspValGlnArgThrMetArg 64
QY	565 AAAGCTCTGTAGATGACGGATTCAAGGATGGGAGCTCACCTTCCACCTCCCTCGA 1500
Db	336 AsnPrometGlypheSerProArgLeuHisAspArgSerGlnProProAlaPheProArg 355
QY	1501 TATGCAAATAAAGGAAAGAACATTGGTGAACATTGGCAAGATAATAGATAGA 1560
Db	356 SerIleLysIleArgAspArgProSerSerTyrGlnPheLeuGluGluMetIleSerArg 375
QY	1561 ATAAAACACTGTCTGTGAGGTGTAACAAATTACATTTGATCTGGATTTC 1620
Db	376 PhelystyralaCysLysValThrLysTyrLysAspTyrTyrSerAlaIeuAsnPhePhe 395
QY	1621 TGTGAATTAGTGAACAGTCACCATGTTCAAGATCTCTGTACAACACT 1677
Db	396 IleGluTyrSerLysLysSerGlyGlnCysIleLeuSerArgSerValieuGlnThrIeu 415
QY	1678 TRCCTGGGATAACAAAAAGGTCTTGAAACTCATCTCATGCAAGACATGGTAAAGAT 1737
Db	416 pheSerAlaAsnMetArgMetAlaHisGlyLysLeuProMetLysGlnPheLeuArgHis 435
QY	1738 GCACTTCGGCTCTTGTCAAGTCTCCGAGTGTCTTCCCACAGTGTCTACCTATAATA 1797
Db	436 SerValGlnValPhe-AsnSerPro-Pro-ValLeuAsnAlaLysHisProValAlaAla 455
QY	745 GAAATGATGGATCCAAAGATGGATGCTGGCATGATGGAAACCAAGTTATCGAAAGTT 744
Db	115 GluIleMetAspProlysMetAspValGlyMetGlyPheAspLysGlnAspLeuProPro 134
QY	805 CTCATTGAAACAAGCTATAAAGATCTCACCTTGCT 804
Db	135 ProSerPheGluAlaAlaIleAlaThrGlyAlaIleLysLeuAspAspLeuThrProSer 154
QY	865 GAACGTAGGATTGATACTGTTGATACGTTGAGACGGCATGGCTCGACAGAGATAAGCTGGTC 1911
Db	155 GluIleGlyIleTyrAspAlaLeuPheserCysLeuValSerTrpLeuGluGlyAsn 174
QY	925 TCACTGGCACAGACAGTATTACGTGCTTACATTCAATCCAGACTTATAGAGAT 984
Db	515 snglnIleAlaAsnGlu-ArgAlaMetGluGly-AsnGluProMetAlaThrAlaLeu- 533

Db	175 SerMetAspGlnValLeuPheThrCysLeuTyrLeuHisAlaProAlaGlnIleLysAsp 194
QY	985 CCTGCTATGAAAGCTTGTCTGGAAATCTTGAAATCTGTGACATGCAAGGGAAAAA 1044
Db	195 LysAlaLeuIrgValPheCysThrAlaValArgAsnLeuIleValValIleLysLysIle 214
QY	1045 GAAATAAGCTGCTGTTGAAAGAGGAAGATTTCAGTCATGACTTATGGA---- 1098
Db	215 IleAlaValAlaAlaValAsnGluGluGluAspPheGln----LeuTygLyAsnSer 232
QY	1099 ---TTTAAATGGTAAACAGTGTGACAGATCTCGAGTTACAGGCATGCTAAAGATGTC 1155
Db	233 AlaleuleAlaAlaGluLysAlaGlnProAlaIleThrValTyrSerSerLeuLysAspVal 252
QY	1156 GAGGATGACATGCAAAGAAGAGTAAGAGTACTCGAAGTCGACAAAGGAAGAGAT 1215
Db	253 GluAspPheIleIleArgLysCysLysLysLeuThrSerThr----- 266
QY	1216 CCAGAAAGTGAACTAGAACACAAATGTTAGCAGTATCAGCAGAGTAAATTACT 1275
Db	267 -----GluAspPheMetAlaIleAlaValHisArgLeuArgPheMet 279
QY	1276 CGTGTGTTACTGACAGTCGCTTATAGCCTTACTAAGAAGAGAACAGTCGCTGTCAGAA 1335
Db	280 ArgHisIlePheGlnValIleArgLysCysLysLysLeuThrSerThr----- 299
QY	1336 GCTCAA-----AAATTGATGGTCAAGCAGACAGATCTCTTCTGCCATTCA 1383
Db	300 AspLysValAspIleTyrLysIleLeuValAlaSerGluMetLeuProGlyIleArg 319
QY	1384 AATTCAATGCACTATGGCATCCAGGCCAGAATGATACTACAAAGA---GATCATCCA 1440
Db	320 AsnThrIleAspArgGlyIleArgLysValGluGlnMetAlaSerAsnAspThrValAsp 335
QY	1441 ATTATGATGGGTTGAACCCCTGTAACCAATTACATTTGATCTGGATTTC 1500
Db	336 AsnPrometGlypheSerProArgLeuHisAspArgSerGlnProProAlaPheProArg 355
QY	1501 TATGCAAATAAAGGAAAGAACATTGGTGAACATTGGCAAGATAATAGATAGA 1560
Db	356 SerIleLysIleArgAspArgProSerSerTyrGlnPheLeuGluGluMetIleSerArg 375
QY	1561 ATAAAACACTGTCTGTGAGGTGTAACAAATTACATTTGATCTGGATTTC 1620
Db	376 PhelystyralaCysLysValThrLysTyrLysAspTyrTyrSerAlaIeuAsnPhePhe 395
QY	1621 TGTGAATTAGTGAACAGTCACCATGTTCAAGATCTCTGTACAACACT 1677
Db	396 IleGluTyrSerLysLysSerGlyGlnCysIleLeuSerArgSerValieuGlnThrIeu 415
QY	1678 TRCCTGGGATAACAAAAAGGTCTTGAAACTCATCTCATGCAAGACATGGTAAAGAT 1737
Db	416 pheSerAlaAsnMetArgMetAlaHisGlyLysLeuProMetLysGlnPheLeuArgHis 435
QY	1738 GCACTTCGGCTCTTGTCAAGTCTCCGAGTGTCTTCCCACAGTGTCTACCTATAATA 1797
Db	436 SerValGlnValPhe-AsnSerPro-Pro-ValLeuAsnAlaLysHisProValAlaAla 455
QY	1798 ATCACCAAGCTAAGGACTGTACTGACTCCCTGTTACTCACTGTGTT----CGGCCAT 1851
Db	455 sprLysValGlnGlnHisLeuGluAsnphePheAspArgTyrCysIleAsnMetAsnThrP 475
QY	1852 TCTGTAGTCTTATTAGTACATGGACATAACGGGCTCGACAGAGATAAGCTGGTC 1911
Db	475 hethrGlnPheIleArgIleCysGlyPheAspAspLeuAspSerMetMet 515
QY	1912 ATATTCGTGAGGAAATTGCCACCTTGCA 1953
Db	495 rgleuIleGluAsnpheAspThrIleGlnValAspAlaAlaArgLeuAspSerMetMet 515
QY	1954 CATTTATTTAATAGGCA-----GAGGTTGATGCGAGCGCTTACACCATGCTGTT 2007
Db	515 snglnIleAlaAsnGlu-ArgAlaMetGluGly-AsnGluProMetAlaThrAlaLeu- 533

QY 2008 GAAACAGGAACCCCAAGCAACATTGGCCTTTAGGTACCTGGCTTACATAA 2067 KW hepatitis; multiple sclerosis; osteoporosis; Reiter's syndrome;
KW rheumatoid arthritis; neurological disorder; epilepsy; stroke; dementia;
Db 534 -----LyShisSerThrHisPheSerThrTrpValleuTyrasnCry 547 KW Alzheimer's disease; Pick's disease; Huntington's disease; mood; anxiety;
QY 2068 CCTTCGCATTATGATACAGTACCTCTTAAGTGGTTGAATGGAACCTACAGTATGCA 2127 KW Parkinson's disease; central nervous system disorder; mental disorder;
Db 547 sPheargalaMetLeuilepheleuMetSerGlyPheGluIeuGluIeuTyralaValhi 567 KW schizoprenic disorder; amnesia; Tourette's disorder; transgenic animal;
QY 2128 CGACTACTATACATATTGGTATCTCTCTGATTCTTACGCATGCTGATGTCAC 2187 KW gene therapy.
Db 567 sGluPheLeuItyrileTyrTrpTyrproTyrGluPheLeuileGlyPheleuValSerAl 587 OS Homo sapiens.
QY 2188 ATTGAGTCGCCGATGGCTCTCAAATGGCAGAGGAAGGATAATGGAAGAGCAGCAGAA 2247 PN WO200257304-A2.
Db 587 aLeuthrArgThrGluAsnileLeuAlaGlnGluGlutYralaGluHisGinSerly 607 XX
PR 15-JAN-2002; 2002WO-US01340.
XX PD 25-JUL-2002.

QY 2248 AGGCCGTAGT-----AGTAAAAACAAGAA 2274 XX
Db 607 sThrGlnSerGlyGlySerGlyAlaAlaLysAsnArgLysAlaAlaLysProLysAs 627 PR
PR 16-JAN-2001; 2001US-261865P.
PR 16-JAN-2001; 2001US-261979P.
PR 17-JAN-2001; 2001US-262164P.
PR 17-JAN-2001; 2001US-262208P.
PR 17-JAN-2001; 2001US-263131P.
PR 19-JAN-2001; 2001US-262599P.
PR 19-JAN-2001; 2001US-262760P.
PR 19-JAN-2001; 2001US-263063P.
PR 19-JAN-2001; 2001US-263066P.
PR 19-JAN-2001; 2001US-263069P.
PR 19-JAN-2001; 2001US-263070P.
PR 19-JAN-2001; 2001US-263074P.
PR 19-JAN-2001; 2001US-263076P.
PR 19-JAN-2001; 2001US-263077P.
PR 19-JAN-2001; 2001US-263329P.

QY 2275 AAAAAGAACGTTGCCATTGAGCCAGAGATCACAAATGAGCCAAGCATCAGAACAT 2334 XX
Db 627 nLysLysLysThrglnArgProtYrArgalaGluIleValPhetyrHisAlaLeuSe 647 PR
PR 19-JAN-2001; 2001US-262760P.
PR 19-JAN-2001; 2001US-263063P.
PR 19-JAN-2001; 2001US-263066P.
PR 19-JAN-2001; 2001US-263069P.
PR 19-JAN-2001; 2001US-263070P.
PR 19-JAN-2001; 2001US-263074P.
PR 19-JAN-2001; 2001US-263076P.
PR 19-JAN-2001; 2001US-263077P.
PR 19-JAN-2001; 2001US-263329P.

QY 2395 GAAGTTGAGCTGATAGTAGTGAAACAAGTTCGGTATGAAACACAGTTGCCATTCAACAG 2454 XX
Db 647 uCysGlyGlyMetTyrLysAlaMetGlyAlaLeuLysAspGlyArgValArgLeuPr 667 PA (INCY-) INCYTE GENOMICS INC.
PR 19-JAN-2001; 2001US-262760P.
PR 19-JAN-2001; 2001US-263063P.
PR 19-JAN-2001; 2001US-263066P.
PR 19-JAN-2001; 2001US-263069P.
PR 19-JAN-2001; 2001US-263070P.
PR 19-JAN-2001; 2001US-263074P.
PR 19-JAN-2001; 2001US-263076P.
PR 19-JAN-2001; 2001US-263077P.
PR 19-JAN-2001; 2001US-263329P.

Db 687 rLeuthrSerProProProValSerTyrAlaGluLysAsnValArgGluHiMetMe 707 XX
PI Panzer SR, Lincoln SE, Altus CM, Dufour GE, Hillman JL, Jones AL; PI Dam TC, Liu TF, Harris B, Flores V, Daffo A, Marwaha R, Chen AJ; PI Chang SC, Gerstein EH, Peralta CH, David MH, Lewis SA; XX DR WPI; 2002-590716/63.
DR N-PSDB; ABS51309.

QY 2512 TAAATATAGCCCTCTCCTCAGTCCTCTGAACGTGACTGTGCAAGCTTCA 2571 XX
Db 723 pGlnAlaArgAsnValleuGluSerIleGlnAsnProAspGlnGluMetLeuAspLe 743 PT New purified secretory polypeptides and polynucleotides, useful in the
PT diagnosis, study, prevention or treatment of diseases associated with decreased
PT expression or treatment of functional secretory molecules, e.g. AIDS,
PT cancer or allergies - XX
PS Claim 27; Page 304-305; 340PP; English.

QY 2692 ATCTAAAGTTCTCTGATTGATRTCTCTGCTCATAATAATTTCCTGTTGAACT 2751 XX
Db 763 uvallysArgGlnProGluPheAspPheSerLysHissSerTyrPheProIleIleLys 783 CC The invention describes an isolated polynucleotide a naturally occurring
CC polynucleotide sequence at least 90 % identical to it, a polynucleotide
CC complementary to it or an RNA equivalent of it. The purified secretory
CC polypeptides (SPTM) and polynucleotides are useful in the diagnosis,
CC study, prevention or treatment of diseases associated with decreased
CC expression of functional SPTM, e.g. actinic keratosis, arteriosclerosis,
CC bursitis, cirrhosis, hepatitis, polycythaemia vera, primary
CC thrombocytopenia, anaemia, psoriasis, cancers including adenocarcinoma,
CC leukaemia, myeloma or sarcoma, immune system disorder such as acquired
CC immunodeficiency syndrome (AIDS), allergies, asthma, Crohn's disease,
CC diabetes mellitus, glomerulonephritis, Goodpasture's syndrome, gout,
CC Hashimoto's thyroiditis, hepatitis, multiple sclerosis, osteoporosis,
CC pancreatitis, Reiter's syndrome, autoimmune thyroiditis or rheumatoid
CC arthritis, neurological disorders such as epilepsy, stroke, Alzheimer's
CC disease, Pick's disease, Huntington's disease, dementia, Parkinson's
CC disease, other developmental disorder of the central nervous system,
CC mental disorder including mood, anxiety or schizoprenic disorder,
CC amnesia or Tourette's disorder. The Polynucleotides may be used in
CC hybridisation and amplification technologies, e.g. in assessing gene
CC expression patterns, to develop a transcript image for a particular cell
CC or tissue, or to create transgenic animals to model human disease. This
CC is the amino acid sequence of a human secretory protein isolated in the
CC invention.

Db 783 u 783 XX

RESULT 4

ABG69816 ID ABG69816 standard; Protein; 239 AA.
AC ABG69816;
XX DT 21-OCT-2002 (first entry)
DE Human secretory protein #7.

KW Human; secretory polypeptide; SPTM; actinic keratosis; arteriosclerosis;
KW bursitis; cirrhosis; hepatitis; polycythaemia vera; anaemia; psoriasis;
KW primary thrombocytopenia; cancer; adenocarcinoma; leukaemia; myeloma;
KW sarcoma; immune system disorder; acquired immunodeficiency syndrome;
KW AIDS; allergy; asthma; Crohn's disease; diabetes mellitus; gout;
KW glomerulonephritis; Goodpasture's syndrome; thyroiditis; pancreatitis;

SQ	Sequence	239 AA;	XX	OS
Alignment Scores:				
Pred. No.:	7.99e-109	Length:	239	XX
Score:	1237.00	Matches:	238	OS
Percent Similarity:	99.58%	Conservative:	0	FN
Best Local Similarity:	99.58%	Mismatches:	1	XX
Query Match:	22.74%	Indels:	0	PD
DB:	23	Gaps:	0	XX
US-10-001-857-42 (1-3096) x ABG69816 (1-239)				
QY	475 GCGCGGGCGAGGGGGCGTCTGTATTCCGTGTCGGACAGTGCGTGGGGGGTG	Length:	239	XX
Db	1 AlaAlaAlaGluAlaAlaSerLeuPheProrpSerGlyGlnCysValAlaArgVal	Matches:	238	PA
QY	535 ACCACGGAGAAGTAGGCATAATGGTATGAAAGCTCTGTAGATGACGATTAGGA	Length:	534	XX
Db	21 ThrThrGlyGluValGlyIleMetValMetLysAlaSerValAspaspaspSerGly	Matches:	40	PT
QY	595 TGGAGCTCAAGTATGCCAGAAAATGGAGAACTAACAAACTGGGGACATTACC	Length:	654	XX
Db	41 TrpGluLeuSerMetProGluLysSerAsnThrAsnTrpValAspIleThr	Matches:	60	DR
QY	655 CAAGATTTGAGAAGCTGTGAGAGATAAAGTGGAGAACTACTCATGATAAGCA	Length:	714	XX
Db	61 GlnAspPheGluGluAlaCysSargGluLeuLysLeuGlyGluLeuLeuHisAspLysLeu	Matches:	80	XX
QY	715 TTGGTCTTTGAGCCATGTCCTGCTATTGAATGATGGATCCAAGATGGATGCC	Length:	774	PI
Db	81 PheGlyLeuPheGluAlaMetSerAlaIleGluMetMetMetAspProLysMetAspAlaGly	Matches:	100	Tang YT, Liu C, Drmanac RT;
QY	775 ATGATGGAAACCAAGTTAATCGAAAGTCTCAATTGACAAGCTATCAAGGATGGC	Length:	834	XX
Db	101 MetIleGlyAsnGinValAsnArgLysValLeuAsnPheGluGlnAlaIleLysAspGly	Matches:	120	PS
QY	835 ACTATTAATAAAGATCTCACCTGCTGAAGTACTGATAGGGATTATGATACTGTTT	Length:	894	Claim 20; Page 608; 765pp; English.
Db	121 ThriIleLysIleLysAspLeuThrLeuProGluLeuIleGlyIleMetAspThrCysPhe	Matches:	140	PT
QY	895 TGCTGTTGATAACGTGGTAGAAGGCCATTCACTGGCACACAGTTACGTGCCCT	Length:	954	vaccination, testing and therapy -
Db	141 CysCysLeuIleThrTrpLeuGluGlyHisSerLeuAlaGlnThrValPheThrCysLeu	Matches:	160	XX
QY	955 TACATTCTAACTCCAGACTTATAGAACATCCTGCTATGAAAGCTTGTCTGGGAAATC	Length:	1014	CC
Db	161 TyrIleHisAsnProAspPheIleGluAspProAlaMetLysAlaPheAlaIleGlyIle	Matches:	180	CC
QY	1015 TTGAAATCTGGACATTGCAAGGAAAGTAATAAGCTGCTGTTTGAGAGGAA	Length:	1074	CC
Db	181 LeuIleIleCysAspIleAlaArgGluLysValAsnLysAlaAlaValPheGluGluIle	Matches:	200	CC
QY	1075 GATTTCAGTCATGACTATGGATTAAATGCTAACAGTGTGACAGATCTGGATT	Length:	1134	CC
Db	201 AspPheGlnSerMetThrTyrglyPhelysMetAlaAsnSerValThrAspLeuArgVal	Matches:	220	The invention relates to novel human secreted polypeptides. The
QY	1135 ACAGGCCATGCTAAAGATGGAGGATGACATGCAAAGAGAGTAAGAGTACTGCA	Length:	1191	determining the presence of or predisposition to a disease associated
Db	221 ThrGlyMetLeuLysAspValGlyAspAspMetGlnArgGlyValSerThrArg	Matches:	239	with altered levels of polypeptide. The polypeptides are also useful for
RESULT 5				
AAU32414	1075 GATTTCAGTCATGACTATGGATTAAATGCTAACAGTGTGACAGATCTGGATT	Length:	1134	identifying agents (agonists and antagonists) that bind to them. Cells
ID	AAU32414 standard; Protein; 108 AA.	Matches:	80	expressing the proteins are useful for identifying a therapeutic agent
XX		Conservative:	0	for use in treatment of a pathology related to aberrant expression or
AC		Mismatches:	2	physiological interactions of the polypeptide. Vectors comprising
XX		Indels:	2	the nucleic acids encoding the polypeptides and cells genetically
DT	18-DEC-2001 (first entry)	Gaps:	0	engineered to express them are also useful for producing the proteins.
XX	Novel human secreted protein #2905.			The proteins are useful in genetic vaccination, testing and
KW	Human; vaccination; gene therapy; nutritional supplement;			therapy, and can be used as nutritional supplements. They may be used to
KW	stem cell proliferation; haematopoiesis; nerve tissue regeneration;			increase stem cell proliferation; to regulate haemopoiesis; and in
KW	immune suppression and/or stimulation; as anti-inflammatory agents; and			bone, cartilage, tendon and/or nerve tissue growth or regeneration;
KW	in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid			immune suppression and/or stimulation; as anti-inflammatory agents; and
KW	sequences of novel human secreted proteins of the invention.			in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid
QY	2944 ACCACTTAAACAGCAGCTTCATCATGTCATAAGGCTGTCAAACAAAGTATC	Length:	108	XX
Db	1 ThrThrLeuIleGlnGlnPheSerPheMetSerTyrLysValPhe	Matches:	80	Homo sapiens.
QY	2884 CTATAATGAGTTACCAAGAACATCCATCTCACTTCCCCTGATGGAGCCCTGGT	Length:	2826	XX
Db	21 LeuIleMetSerCysTyrProArgAsnProSerHisPhePro**CysGlyIleTrpVal	Matches:	40	WO200179449-A2.
QY	2825 ATGTGCCCTCAAGAGTTGGCTGAAAGAAGACTCTGCCCTTATGCCACCTCCCCA	Length:	2766	XX
Db	41 MetCysProLeuArgValGlySerGluArgGlyLeuCysProMetAlaThrSer-Gl	Matches:	60	PD
QY	2765 GTCTCTCTAACACAGTTCACAAACAGGAAATTATGAGCAGAAATCAAATTAG	Length:	2706	XX
Db	60 nSerLeuSerAsnLysPheHisAsnArgLysIlePheMetSerArgGluIleLysPheAr	Matches:	80	PF
QY	2705 GAGGAAC 2699	Length:	2699	XX
Db	80 9ArgAsn 82	Matches:	82	PR

RESULT 6
 ABB93650 standard; Protein; 681 AA.
 XX
 AC ABB93650;
 XX
 DT 31-MAY-2002 (first entry)
 DE Herbicidally active polypeptide SEQ ID NO 2861.
 KW Herbicidal; Plant; agriculture; herbicide.
 XX
 OS Arabidopsis thaliana.
 XX
 PN WO200210210-A2.
 XX
 PD 07-FEB-2002.
 XX
 PR 28-AUG-2001; 2001WO-EP09892.
 XX
 PA (FARB) BAYER AG.
 XX
 PI Tietjen K, Weidler M;
 DR WPI; 2002-269010/31.

XX
 Identifying plant target proteins for herbicidally active compounds, comprising aligning and comparing nucleic acid or amino acid sequences from plant organisms -
 PT comprising aligning and comparing nucleic acid or amino acid sequences from plant with nucleic acid or amino acid sequences from non-plant organisms -
 XX
 PS Claim 5; SEQ ID NO 2861; 261pp + Sequence Listing; English.
 XX
 CC The invention relates to identifying target proteins (ABB90790-ABB94016) for herbicidally active compounds, comprising aligning and comparing nucleic acid or amino acid sequences from plant with nucleic acid or amino acid sequences from non-plant organisms using suitable search parameters, where plant sequences having an E-value greater by a factor of 3 than the E-value of most similar non-plant sequences are selected. The polypeptides or nucleic acids encoding them are useful for identifying modulators. The identified modulators are useful as herbicides.
 CC
 XX
 SQ Sequence 681 AA;

Alignment Scores:
 Pred. No.: 1.2e-05 Length: 681
 Score: 158.50 Matches: 52
 Percent Similarity: 38.65% Conservative: 11
 Best Local Similarity: 31.90% Mismatches: 60
 Query Match: 2.88% Indels: 40
 DB: 23 Gaps: 6

US-10-001-857-42 (1-3096) X ABB93650 (1-681)

QY 608 ATACTGAGCTCCATCCTGAATCGTCATCATCACAGAAGCTTCATAACCATTATGCCT 549
 Db 60 ValValSerSerProProSerSerProPro-----Pro 72
 QY 548 ACTRCTCCCGGGTACCCGGGCCACGCACGTGTCGG----- 509
 Db 73 SerProProValleIthr-SerProProProThrValAlaSerSerProProProProVa 92
 QY 508 -----ACCAAGGAATAACGAGCCGCCCTGGGGGG---- 476
 Db 92 IvalleAlaserProProProSerThrProAlaThrThrProAlaProProGlnTh 112
 QY 475 -----CCGCCCTCCCTCAGCCCAGCCCCAGGGAGCGTGACCGATGCGTAT 423
 Db 112 rValSerProProProProAspAlaSerProSerProProAlaProThrThrThrAs 132

QY 422 GCCGGGACGGCGACCCGGCCCTCTCCTACTCCGGGACTTCGGCTCCCGGC 363
 Db 132 nPro-----ProProLysProSerProSerProProGluThrProSerProPr 149
 QY 362 CACACCCCTCCCTGCCACCCCTCCGTCGGCGATGGCCGCCCTCTCTCGC 303
 XX
 Db 149 oGlyGluThrProSerProProLysPro-----SerProSerThrProTh 164
 QY 302 GAGATTAGAGACGATGCCAGACCGGAAGTTATCTTTACCCCTCTGTGGAGTCCTG 243
 XX
 Db 164 rProThrThrThrThrSerProPro-----ProProProAlaThrSe 178
 QY 242 GGTAGTGGCGGTTCCCGGAAGAGGGGGAGCCGGAGTCTCAGAGCCGCCGCTCGC 183
 Db 178 rAlaSerProProSerSerAsnProThrAspProSerThrLeuAlaProProProThrPr 198
 QY 182 GCTGCC 176
 Db 198 oleuPro 200

RESULT 7
 ABG14149
 ID ABG14149 standard; Protein; 156 AA.
 XX
 AC ABG14149;
 XX
 DT 18-FEB-2002 (first entry)
 XX
 DE Novel human diagnostic protein #14140.
 XX
 DE Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 KW Homo sapiens.
 XX
 OS Homo sapiens.
 XX
 PN WO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PR 30-MAR-2001; 2001WO-US08631.
 XX
 PR 31-MAR-2000; 2000US-0540217.
 XX
 PR 23-AUG-2000; 2000US-0649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 XX
 N-PSDB; AAS78336.

XX
 PT New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -
 PT
 XX
 PS Claim 20; SEQ ID NO 44508; 103pp; English.

XX
 CC The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity

and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](ftp://wipo.int/pub/published_pct_sequences).

Alignment Scores:
 Pred. No.: 1.61e-05
 Score: 153.50
Percent Similarity: 34.66%
Best Local Similarity: 29.55%
Query Match: 2.79%
DB: 22

Length: 156
Matches: 52
Conservative: 9
Mismatches: 56
Indels: 59
Gaps: 7

Claim 5; SEQ ID NO 715; 261pp + Sequence Listing; English.

Alignment scores:
 Pred. No.: 4.11e-05
 Score: 153.00
 Percent Similarity: 39.38%
 Best Local Similarity: 30.57%
 Query Match: 2.78%
 DB: 23

Length:	708
Matches:	59
Conservative:	17
Mismatches:	71
Indels:	46
Gaps:	8

RESULT 8
ABB91504
ID ABB91504 standard; protein; 708 AA.
XX
AC ABB91504;
XX
DT 31-MAY-2002 (first entry)
XX
DE Herbicidally active polypeptide SEQ ID NO 715.
XX
KW Herbicidal; plant; agriculture; herbicide.
XX
OS *Arabidopsis thaliana*.
WO200210210-A2.
XX
PN
XX
PD
XX
07-FEB-2002.

434 ACCGATG-----CGTATGCCGGACGGGACCCCTC 396
 bb 180 othrGlnSerProProSerProProSerGluArgProThrGlnSerProProProSerProProPro 200
 b 395 TCCCTTACTCCGGGGACTTCGGCTCCCCCACACCCCTCCGCCACGGCTCC 336
 b 200 rProProSerProProSerAspArgProSerGlnSerProPro-----ProProProG1 218
 b 335 GTTCGGCCGATGGGGCCGCCTCTCTCTCGCGAGATTAGAGACGATCGCGAGACGGA 276
 b 218 uAspThrLysProGlnProProArg-----ArgSerProAsnSerProPr 233
 b 275 AGTTATCTTTCACCTCTGGAGTCGGTACTGGGGTCCGAAAGAGGC 216
 b 233 oProThrPheSerSerPro-ProArgSerProProGluIleLeuValProGlySerAsnA 253
 b 215 GGAGCCGGAGTCTCAGAGCCCCCGCTGGCTGCCCTCTGGAAATTCTTAGAAG 156

Db 253 sn-----ProSerGlnAsnAsnProThrLeuArgProProLeu----- 265
Qy 155 GTGACCGCGAAGGGAGAACCGTGGAGGTGTG 121
Db 266 -AspAlaProAsnSerThrAsnSerGlyIle 276
RESULT 9
ID ABU52794
AC ABU52794 standard; Protein; 120 AA.
XX
AC ABU52794;
XX
DT 14-APR-2003 (first entry)
XX Human transmembrane protein DKFZPhfibr2_82g14 homologue #2.
KW Human; gene therapy; vaccine; disease treatment; detection.
XX
OS Homo sapiens.
XX
PN WO200112659-A2.
XX
PD 22-FEB-2001.
XX 18-AUG-2000; 2000WO-IB01496.
PR 18-AUG-1999; 99US-0149499.
PR 28-SEP-1999; 99US-0156503.
XX (GEHU-) GERMAN HUMAN GENOME PROJECT.
PA
XX Wiemann S;
PI
XX DR WPI; 2001-327840/34.
XX
PT Nucleic acids having the sequences of clones isolated from libraries of different human tissues, useful in recombinant DNA methodologies -
PT Example III; Page 359; 1095pp; English.
PS
XX This invention describes novel polynucleotides and polypeptides isolated from human cDNA libraries which can be used for gene therapy or in vaccines. The polynucleotides of the invention and antibodies encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate polypeptide expression. The products of the invention may also be used to identify modulators of expression and activity and to down regulate expression and activity. The antibodies of the invention may also be used as diagnostic agents for detecting the presence of polypeptides described in samples. This sequence represents a homologue of a polypeptide described in the disclosure of the invention.
CC
CC
SQ Sequence 120 AA;

Alignment Scores:
Pred. No.: 6.5e-05 **Length:** 120
Score: 146.50 **Matches:** 44
Percent Similarity: 38.93% **Conservative:** 7
Best Local Similarity: 33.59% **Mismatches:** 53
Query Match: 2.67% **Indels:** 27
DB: 22

US-10-001-857-42 (1-3096) x ABU52794 (1-120)

Qy 541 CCGGGTCACCCGGCCACGCACTGTGGACCACGGAAATAAGGACGCCGCT 485
Db 6 ProProGlyProProProProProGlyIleProProProLeuAlaGlyProProAsn 25
Qy 484 -----CGGCCGCAGCCGCCCCCTCCCTCTCAGGCCAGGCCAGCGTGC 434
Db 26 ArgGlyAspArgProProProProValleuPheProGlyGlnProHeGlyGlnProPro 45
Qy 433 CGCATGCGTATGCCGGGACGCCGGCTCTCCCTACTCCGGGACTTCG 374

Db 46 LeuGlyProLeuPro-----ProGlyProProProProValProGlyTyrgly 61
Qy 373 CGCTCCCCGCCACACCCCTCCC-----TCGCCACCGCCTCGGCGATGG-- 323
Db 62 ProProProGlyProProProProGlyProProProProGlyProProPro 81
Qy 322 ---CGGGCGCTTCTCTCTCGCGAGATAGAGACGGATCGCGAGACGGAGATCTT 266
Db 82 ProArgProProGlyProLeuGlyProProLeuThrLeuAlaProProHisLeuPro 101
Qy 265 TTTCACCCCTGTCGGAGTAGGGCTGGGGTTCCCGGAAGAGGGGGAGGGGA 206
Db 102 GlyProPro-----ProGly 106
Qy 205 GTCTCAGAGCCCCCGTCTGGCTGCGCTCT 173
Db 107 AlaProProProAlaProHisValAsnProAla 117
RESULT 10.
AAM52322
ID AAM52322 standard; Protein; 574 AA.
XX
AC AAM52322;
XX
DT 18-JAN-2002 (first entry)
XX
DE WASP homolog protein.
XX Actin polymerisation; Ena/WASP; vasodilator-stimulated phosphoprotein; metastatic cancer; parasitic infection; cytotoxic; WASP.
XX
OS Schizosaccharomyces pombe.
XX
PN WO2001171356-A2.
XX
PD 27-SEP-2001.
XX
PP 21-MAR-2001; 2001WO-FR00843.
XX
PR 22-MAR-2000; 2000FR-0003637.
XX
PA (CNRS) CENT NAT RECH SCI.
PA (CURIE) INST CURIE.
XX
PI Fradelizi J, Friederich E, Golsteyn RM, Louvard J, Noirreux V;
PI Sykes C;
XX
DR WPI; 2001-639148/73.

Identifying modulators of actin polymerization, potentially useful for treating tumor metastasis and parasitic infection, using proteins that contain Ena/VASP binding sites -

XX
PS Claim 13; Pages 107-109; 109pp; French.

CC The present invention relates to a method for identifying modulators of actin polymerisation. The method involves using proteins that contain at least one binding motif for proteins of the Ena/VASP (vasodilator-stimulated phosphoprotein) family in the preparation of reagents for identification/screening of molecules that modulate formation of the actin cytoskeleton. The proteins used in the method (i.e. the proteins with binding motif(s) for Ena/VASP proteins) do not bind to the Arp2/3 protein complex. The modulators identified by the method are potentially useful for treating disorders of actin polymerisation, e.g. metastatic cancer or parasitic infection; and as cytotoxic agents. The present sequence one such protein with binding motif(s) for Ena/VASP proteins, which was used in the method of the present invention.

XX
SQ Sequence 574 AA;

Alignment Scores:
Pred. No.: 0.000153 **Length:** 574

Score:	146.50	Matches:	53
Percent Similarity:	39.41%	Conservative:	14
Best Local Similarity:	31.18%	Mismatches:	64
Query Match:	2.67%	Indels:	39
DB:	22	Gaps:	8
US-10-001-857-42 (1-3096) x AAM52322 (1-574)			
QY	544 CTCCCGTGGTCACCGGCGCACGGACTGTCCGGACCACGAAATAACGACGCCCT	485	XX
Db	336 IleProProProProProProProArgSerAsnAlaAlaGlySerIleProLeuProPro	355	DR
QY	484 CGG-----CCGCCGCCCTCCCTCATGCCAGCCCCACGGCAGCGT	437	N-PSDB
Db	356 GlnglyArgSerAlaProProProProProProArgSerAla---ProSerThrGlyArg	374	AAH77922.
QY	436 GCACGGATGCGTATGCCGGACGCCACGCGC-----GACCCGCCCTCTCCCTTA	389	PT
Db	375 GlnProProProLeuSerSerSerArgAlaValSerAsnProAlaProProAla	394	identifying modulators of actin cytoskeleton formation, potential
QY	388 CTCGGGGACTTCGGCTCCGGACACCC-----GGTCC	356	anticancer and antiparasitic agents
Db	395 IleProGlyArgSer--AlaProAlaLeuProProLeuGlyAsnAlaSerArgThrSer	413	
QY	355 -----CCTCCCTCGCCACGGCCTCCGGTCCGGCGA	326	
Db	414 ThrProProValProThrProProSerLeuProProSerLeuProPro	433	
QY	325 TGGGGGCCCTCTCTCGCAGATTAGAGACGATCGCGAGACCGAAGTTATCTT	266	
Db	434 SerAlaProProSerLeu-----PrometGlyAlaProAlaAlaProProLeuProPro	451	
QY	265 TTCAACCTCTGTCGGACTGGTAGTGGC-----GGTCC	227	
Db	452 SerAlaProIleAlaProProLeuProAlaGlyMetProAlaAlaProProLeuProPro	471	
QY	226 CGGAAAGAGGGGGAGCCCCGGAGCTCAGAGCCCCGGCTGGCCCTCTGGGAAT	167	
Db	472 AlaAlaProAlaProProProAlaProAlaProAlaAla---ProValAlaSer 490		
QY	166 TTCTTAGAAAGGTGACGGGAAGGGGGAGG	137	
Db	491 IleAlaGluIleProGlnGlnAspGlyArg 500		
RESULT 11			
AAG67370			
ID	AAG67370 standard; Protein; 574 AA.		
XX			
AC			
XX			
DT	13-NOV-2001 (first entry)		
DE	Amino acid sequence of a yeast WASP protein homologue.		
XX			
Wiskott-Aldrich syndrome protein; WASP; actin cytoskeleton; cell motility; actin polymerisation; cancer; parasite infection; embryonic development; immune response; wound repair.			
XX			
OS	Schizosaccharomyces pombe.		
XX			
PN	WO200144292-A2.		
XX			
PD	21-JUN-2001.		
XX			
PF	15-DEC-2000; 2000WO-FR03569.		
XX			
PR	16-DEC-1999; 99FR-0015900.		
XX			
PA	(CNRS) CENT NAT RECH SCI.		
PA	(CURI-) INST CURIE.		
XX			
PI	Noireaux V, Prost J, Sykes C, Friederich E, Golsteyn RM;		
PI	Louvard D;		
RESULT 12			
QY	544 CTCCCGTGGTCACCGGCGCACGGACTGTCCGGACCACGAAATAACGACGCCCT	485	XX
Db	336 IleProProProProProProProArgSerAsnAlaAlaGlySerIleProLeuProPro	355	DR
QY	484 CGG-----CCGCCGCCCTCCCTCATGCCAGCCCCACGGCAGCGT	437	N-PSDB
Db	356 GlnglyArgSerAlaProProProProProProArgSerAla---ProSerThrGlyArg	374	AAH77922.
QY	436 GCACGGATGCGTATGCCGGACGCCACGCGC-----GACCCGCCCTCTCCCTTA	389	PT
Db	375 GlnProProProLeuSerSerSerArgAlaValSerAsnProAlaProProAla	394	identifying modulators of actin cytoskeleton formation, potential
QY	388 CTCGGGGACTTCGGCTCCGGACACCC-----GGTCC	356	anticancer and antiparasitic agents
Db	395 IleProGlyArgSer--AlaProAlaLeuProProLeuGlyAsnAlaSerArgThrSer	413	
QY	355 -----CCTCCCTGGCCACGGCTCCGGTCCGGCGA	326	
Db	414 ThrProProValProThrProProSerLeuProProSerAlaProProSerLeuProPro	433	
QY	325 TGGGGGCCCTCTCTCGCGAGATTAGAGACGATGGGAGACGGGAAGTATCTT	266	
Db	434 SerAlaProProSerLeu-----PrometGlyAlaProAlaAlaProProLeuProPro	451	
QY	265 TTCAACCTCTGTCGGACTGGTAGTGGC-----GGTCC	227	
Db	452 SerAlaProIleAlaProProLeuProAlaGlyMetProAlaAlaProProLeuProPro	471	
QY	226 CGGAAAGAGGGGGAGCCCCGGAGCTCAGAGCCCCGGCTGGCCCTCTGGGAAT	167	
Db	472 AlaAlaProAlaProProProAlaProAlaProAlaAla---ProValAlaSer 490		
QY	166 TTCTTAGAAAGGTGACGGGAAGGGGGAGG	137	
Db	491 IleAlaGluIleProGlnGlnAspGlyArg 500		

ABG79529
ID ABG79529 standard; Protein; 416 AA.
XX
AC ABG79529;
XX
DT 15-NOV-2002 (first entry)
DE Human tumour suppressor protein #15.
XX
KW Human; cancer; tumour suppressor protein; breast cancer; lymphoma; adenocarcinoma; leukaemia; melanoma; myeloma; sarcoma; teratocarcinoma; prostate; cervix; liver; ovary; adrenal gland; heart; brain; lung; colon; placenta; skeletal muscle; synovial membrane; tonsil; kidney; uterus; skin; cytostatic.
XX
OS Homo sapiens.
XX
PN WO200264775-A1.
XX
PD 22-AUG-2002.
XX
PF 12-FEB-2002; 2002WO-AU00137.
XX
PR 12-FEB-2001; 2001AU-0003052.
PR 12-FEB-2001; 2001AU-0003053.
PR 12-FEB-2001; 2001AU-0003054.
XX
PA (BION-) BIOMICS LTD.
XX
PI Callen DF, Powell JA, Kremmidiotis G, Gardner AE, Whitmore SA;
XX
DR N-PSDB; ABS64842.
XX
PT New tumour suppressor genes identified at 16q24.3, useful for identifying or obtaining full-length human genes involved in the tumourigenic process, or in diagnosing or treating cancer (e.g. breast PT or cervix cancer) through gene therapy -
XX
PS Claim 15; Page 138-139; 218pp; English.
XX
CC The invention relates to a tumour suppressor gene and the protein it encodes. The genes are useful for identifying and/or obtaining full-length human genes involved in the tumourigenic process. The genes CC encode the polypeptides and antibodies to the polypeptides are useful in diagnosing cancer, in establishing the prognosis of a patient diagnosed CC with cancer, or in treating cancer through gene therapy. In particular, CC the cancer is breast cancer. The drugs that restore tumour suppressor activity are useful for treating breast cancer or for manufacturing a medicament for the treatment of breast cancer. The cancer may also be CC adenocarcinoma, leukaemia, lymphoma, melanoma, myeloma, sarcoma, CC teratocarcinoma, or cancer of the prostate, cervix, liver, ovary, adrenal CC gland, heart, brain, lung, placenta, skeletal muscle, synovial membrane, CC tonsil, kidney, colon, uterus or skin. This sequence represents a human, CC tumour suppressor protein of the invention.
XX
SQ Sequence 416 AA;

Alignment Scores:
Pred. No.: 0.000143 Length: 416
Score: 146.00 Matches: 62
Percent Similarity: 37.62% Conservative: 17
Best Local Similarity: 29.52% Mismatches: 62
Query Match: 2.66% Indels: 69
DB: 23 Gaps: 11

US-10-001-857-42 (1-3096) × ABG79529 (1-416)

QY 541 CCGGGTCACCCGCCAGCACTGTCCGGACC----- 506
Db 127 ProArgProProGlyProProArgSerProGlnSerArgGlyPro 146
QY 505 -----ACGAAATAACG 494

Db 147 ProAlaThrGlnAlaArgProGluProProSerAlaProTyroGlyArgProLysLeuArg :::::
QY 493 ACGCCGCCCTGGCCGCCGCCCTCCCCTCTCA---GCCCAAGCCGACCGGCAGCGT 437
Db 167 ArgProProArgProProGluProProMetGlyProSerArgProProArgAlaPro 186
QY 436 GCACGCCATGGGTATGCCGGGACGCCACACCC----CCGCCCTCCTACTCCG 383
Db 187 LYSAspProArgLeuProArgThrArgThrArgArgProAlaProGlyProIleLe--- 205
QY 382 GGGACTTCGGCTCCCCGGCACACCC----CCTCCCTGCCACGCCCTCCG 335
Db 206 GlyProSerArgSerProArgAlaProLysAspProArgProProGlyProAspPro 225
QY 334 TTGGCCGATGGGCCGCCCT-----TCTCTTCTCGGAGATTAGAG 293
Db 226 -----GlyProProGluGlyProArgHisSerServAlaGlyLysGlyLeu 241
QY 292 ACGATGCCGAGACCGGAAGTTATCTTTTCAC----- 260
Db 242 GlnProAlaArgProArgGluCysProValHisAlaProThrThrAlaProArgProPro 261
QY 259 ---CCTCTGTCGGAGTCTGGTAGTGGGGTCCCGGAAAGGGGGAGCCGGA--- 206
Db 262 AlaProLeuThrValleuArgGlyLeuProGlySerAlaThrAlaGlnArgGlyAla 281
QY 205 -----GTCAGAGCCCCGCC---CCGTCGCG 182
Db 282 GlyAlaAlaHisAlaAlaArgGlyArgValSerArgProAlaArgProLysArgGlnAla 301
QY 181 CTGCCCTCTGGATTCTTAGAAAGGTGACGCCGAAGGGAAACCGTGGAGGTT 122
Db 302 GlyGlyAlaLaglyGly-AlaGlySerGlyProAlaLysLeuArgGlyThrAlaGlyGlyG1 321
QY 121 GCGTACACCTAGTGGTGGCCAGCACCA 94
Db 321 uProAlaPro-----ArgAlaArg 327

RESULT 13
ABB92421
ID ABB92421 standard; Protein; 694 AA.
XX
AC ABB92421;
XX
DT 31-MAY-2002 (first entry)
XX
DE Herbicidally active polypeptide SEQ ID NO 1632.
XX
KW Herbicidal; plant; agriculture; herbicide.
XX
OS Arabidopsis thaliana.
XX
PN WO200210210-A2.
XX
PD 07-FEB-2002.
XX
PF 28-AUG-2001; 2001WO-EP09892.
XX
PR 28-AUG-2001; 2001WO-EP09892.
XX
PA (FARB) BAYER AG.
XX
PI Tietjen K, Weidler M;
XX
DR WPI; 2002-269010/31.
XX
PT Identifying plant target proteins for herbicidally active compounds, comprising aligning and comparing nucleic acid or amino acid sequences from plant with nucleic acid or amino acid sequences from non-plant organisms -
XX
PS Claim 5; SEQ ID NO 1632; 261pp + Sequence Listing; English.

XX
CC The invention relates to identifying target proteins
CC (ABB90790-ABB94016) for herbicidally active compounds, comprising
CC aligning and comparing nucleic acid or amino acid sequences from plant
CC with nucleic acid or amino acid sequences from non-plant organisms using
CC suitable search parameters, where plant sequences having an E-value
CC greater by a factor of 3 than the E-value of most similar non-plant
CC sequences are selected. The polypeptides or nucleic acids encoding them
CC are useful for identifying modulators. The identified modulators are
CC useful as herbicides.

XX SQ Sequence 694 AA;

Alignment Scores:

Pred. No.: 0 000211 Length: 694
Percent Similarity: 41.48% Matches: 44
Best Local Similarity: 32.59% Conservative: 12
Query Match: 2.65% Mismatches: 46
DB: 23 Indels: 33
Gaps: 6

US-10-001-857-42 (1-3096) x ABB92421 (1-694)

QY 541 CCGTGGTCACCGCGCCGACGGACTGTCCGGACCACGAAATAACGAGCGC---- 488
Db |||||::|:|||:||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||

XX PR 28-FEB-2000; 2000US-0515126.

PR 18-MAY-2000; 2000US-0577409.

XX PA (HYSE-) HYSEQ INC.

XX PI Tang YT, Liu C, Drmanac RT;

XX DR WPI; 2001-514838/56.

DR N-PSDB; AAI85277.

XX PT Isolated nucleic acids and polypeptides, useful for preventing
PT diagnosing and treating e.g. leukaemia, inflammation and immune
PT disorders -

XX PS Claim 20; SEQ ID NO 19238; 1399pp + Sequence Listing; English.

The invention relates to human polynucleotides (AAI79941-AA193841) and
the encoded proteins (AA00010-AA013910) that exhibit activity elating to
cytokine, cell proliferation or cell differentiation or which may induce
polynucleotides and polypeptides are useful in gene therapy, vaccines or
peptide therapy. The polypeptides have various cytokine-like activities,
e.g. stem cell growth factor activity, haematopoiesis regulating
activity, tissue growth factor activity, immunomodulatory activity and
activin/inhibin activity and may

